Shell Oil Company

P.O. Box 831
Houston, Texas 77001

May 4, 1982

Mr. Edgar W. Guynn, District Supervisor
Minerals Managment Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104

Dear Mr. Guynn:

REQUEST TO SURVEY AND STAKE
DESERT CREEK FORMATION TESTS
SAN JUAN COUNTY, UTAH

Under an agreement with Sun Exploration Company, Shell Oil Company proposes to drill the below tabulated tests on federal lands administered by the Bureau of Land Management.

We request your approval to survey and stake these proposed tests in preparation for on-site reviews. Attached are topographic maps illustrating the locations and adjacent topographic features.

Test	Drlg. Unit	Section	T/R	Lease No.	Lease Date
USA 22-19 ? PA (21)	SE/4 NW/4	19	39S-19E	U 29967	7-1-75
USA 22-27 PA	SE/4 NW/4	27	39S-18E	U 29959	7-1-75
USA 14-8 ?	SW/4 SW/4	8	40S-19E	U 29962	7-1-75
USA 43-11 LA	NE/4 SE/4	11	40S-19E	U 29961	12-1-75

We have informed the MMS Durango Inspection Office and the BLM Monticello Area Office of our plans to drill these tests. We are prepared to work closely with these offices in staking the tests, scheduling on-site reviews and working out the stipulation requirements necessary for APD submittal and approval.

RECEIVED
MAY 10 1982
DIVISION OF
OIL, GAS & MINING

We would appreciate verbal approval to proceed with our survey work. (Phone G. M. Jobe (713) 870-3216 or R. L. Tyler (713) 870-3215.)

Yours very truly,

G. M. Jobe

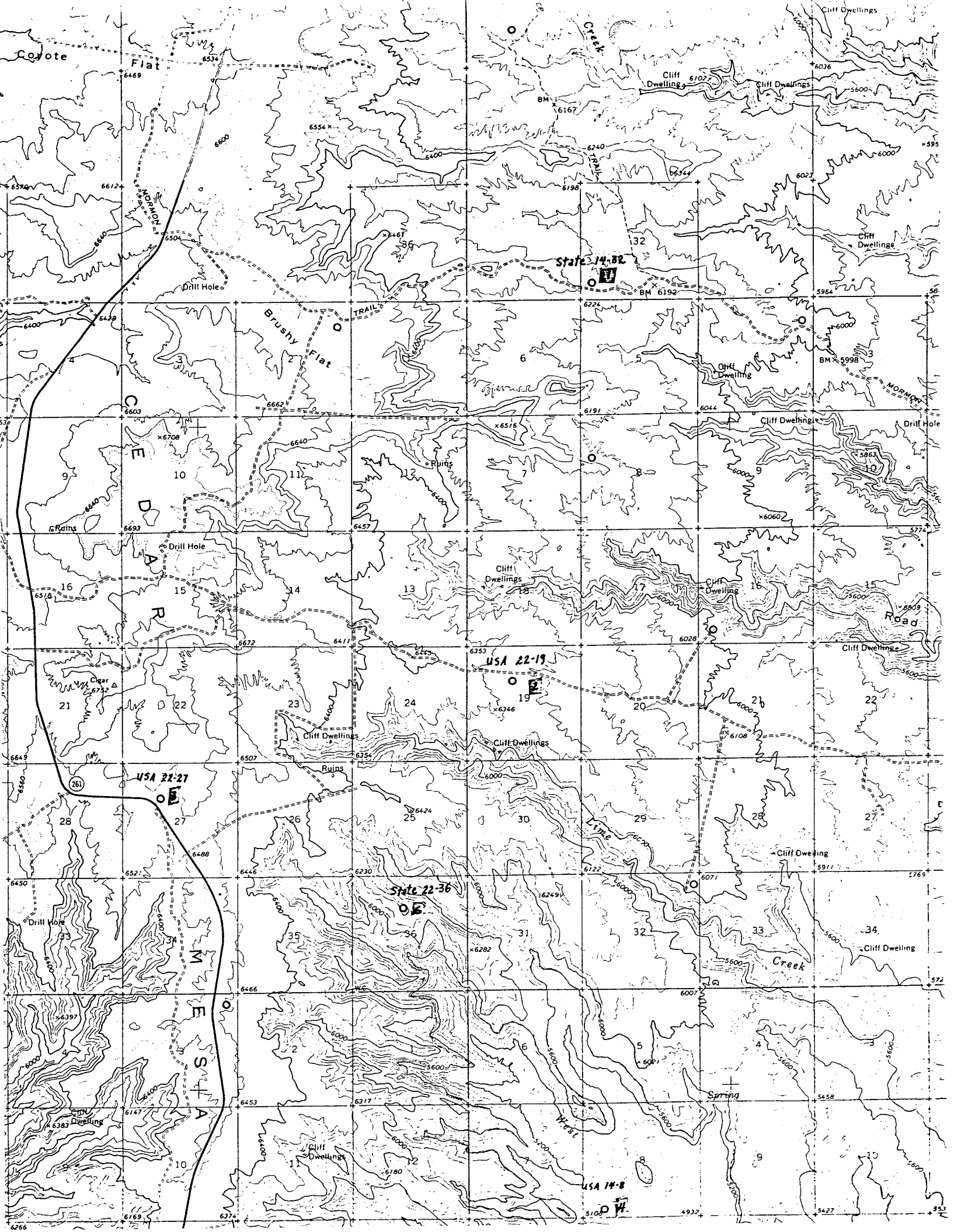
G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division

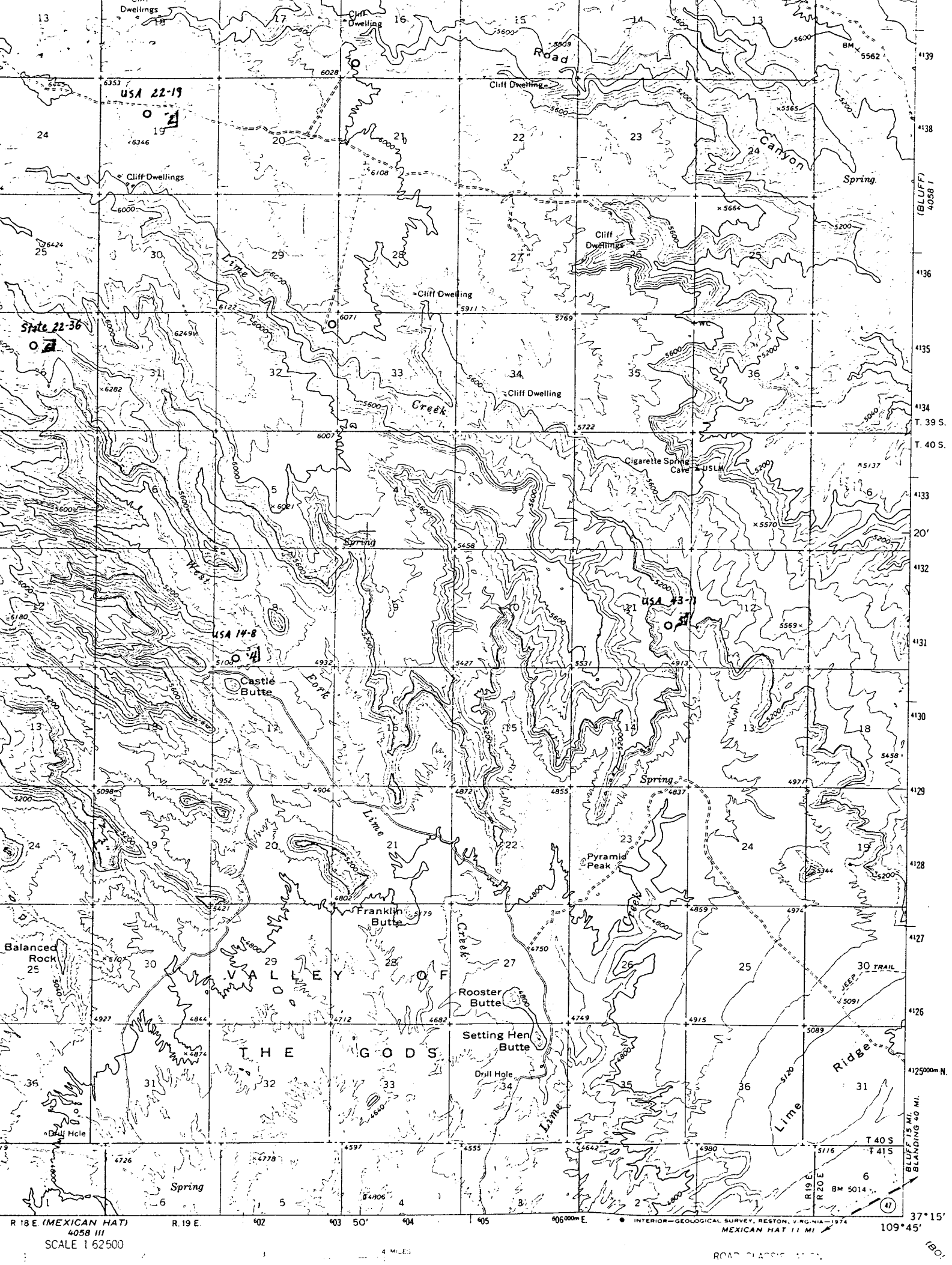
RLT:beb

Attachments

cc - Mr. Bob Turri
Bureau of Land Management
P. O. Box 7
Monticello, UT 84535

Mr. Don Englishman
Minerals Management Service
P. O. Box 3524
Durango, CO 81301


Coyote Flat
Creek
Cliff Dwellings
Cliff Dwelling
BM 6167
TRAIL
MORMON
Drill Hole
State 14-32
BM 6192
Brushy Flat
TRAIL
BM 5998
MORMON
Cliff Dwellings
Drill Hole
Ruins
Drill Hole
Cliff Dwellings
Cliff Dwelling
Road
Cliff Dwellings
USA 22-19
Clear
Cliff Dwellings
Cliff Dwellings
Ruins
USA 22-27
261
Lime
Cliff Dwelling
State 22-36
Drill Hole
Cliff Dwelling
Creek
Spring
West
Cliff Dwelling
Cliff Dwellings
USA 14-8


Cliff Dwellings
Cliff Dwelling
Road
Cliff Dwellings
USA 22-19
Canyon
Spring
Cliff Dwellings
Cliff Dwellings
Lime
Cliff Dwelling
State 22-36
Cliff Dwelling
Creek
T. 39 S.
T. 40 S.
Cigarette Spring Cave
USLM
Spring
West
USA 43-11
USA 14-8
Castle Butte
Fork
Spring
Lime
Pyramid Peak
Franklin Butte
Creek
Balanced Rock
VALLEY OF THE GODS
Rooster Butte
Setting Hen Butte
Drill Hole
Drill Hole
Lime
Ridge
Lime
Spring
BLUFF 15 MI.
BLANDING 40 MI.
R 18 E. (MEXICAN HAT) 4058 III
R. 19 E.
SCALE 1:62500
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1974
MEXICAN HAT 11 MI
37°15'
109°45'

NO

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUN 10 1982
SALT LAKE CITY, UTAH

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 [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 831, Houston, Texas 77001 Attn. G. M. Jobe Rm 5468WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1860' FNL & 1900' FWL Section 27
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
U-29959

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USA

9. WELL NO.
22-27

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NW/4 Section 27
T39S R18E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 miles north of Mexican Hat, Utah

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1860' / 540'

16. NO. OF ACRES IN LEASE: 2120

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

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

19. PROPOSED DEPTH: 2400'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6539' GR

22. APPROX. DATE WORK WILL START*: Upon permit approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

SEE 10 POINT PLAN

ATTACHMENTS:
10 POINT PLAN - ATTACHMENT A
BOP EQUIPMENT - ATTACHMENT B
CHOKE MANIFOLD - ATTACHMENT C
SURFACE USE PLAN - ATTACHMENT D
SURVEY PLAT - ATTACHMENT E
VICINITY TOPO MAP - ATTACHMENT F
DRILL PAD LAYOUT - ATTACHMENT G
DRILL PAD CROSS SECTIONS - ATTACHMENT H
PRODUCTION FACILITIES LAYOUT - ATTACHMENT I
ARCHAEOLOGY REPORT FORWARDED TO MINERALS MANAGEMENT SERVICE & BLM UNDER SEPARATE COVER

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-6-82
BY: Norman C. Stout

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 Glen M. Jobe TITLE Administrator Regulatory-Permits DATE 6-9-82

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W P Martins TITLE FOR E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR DATE JUL 21 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL
State Oil + Gas

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

(2)

Identification No. 380-82

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator SHELL OIL COMPANY

Project Type single zone oil exploration well

Project Location 1860' FNL/1900' FWL, sec. 27, T. 39 S., R. 18 E., San Juan County, Utah

Well No. 22-27 USA Lease No. U-29959

Date Project Submitted

FIELD INSPECTION Date May 26, 1982

Field Inspection Participants

Dick Tylen/Lee Bass - SHELL OIL CO.
Brian Wood - Bureau of Land Management
Pat Harden/Barry Hibbetts - archys La Plata Archy Consultants
Tony & Lars Hansen - Heun Engineering
Dean McClellan - McDonald Construction

Don Englishman - MMS

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

May 26, 1982
Date Prepared

Donald Englishman
Environmental Scientist

I concur

JUN 21 1982
Date

W P Martins
District Supervisor

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

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

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input

2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)

3. Lease Stipulations/Terms

4. Application for Permit to Drill

5. Operator Correspondence

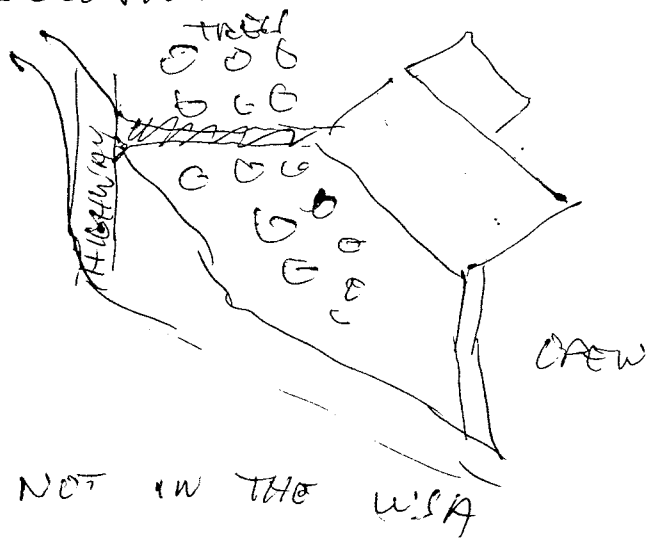
6. Field Observation

7. Private Rehabilitation Agreement

Remarks:

1. Location not changed as stated (during on-site inspection)

2.



3. NOT IN THE WSA

4. Water source not known at time of on-site

IN REPLY REFER TO

T39S,R18E,
S. 27
(U-069

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Moab District
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

June 16, 1982

RECEIVED
JUN 17 1982
MINERALS MANAGEMENT S...
DURANGO, CO

Memorandum

To: Minerals Management Service, Durango, CO

From: Area Manager, San Juan

Subject: Shell's APD for USA 22-27 Well (U-29959)

We concur with approval of the Application for Permit to Drill. The archaeological requirement has been fulfilled. No threatened or endangered species are indicated.

Edward L. Scherick

CONSERVE AMERICA'S ENERGY

Save Energy and You Serve America!

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUN 18 1982
SALT LAKE CITY, UTAH

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 [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 831, Houston, Texas 77001 Attn. G. M. Jobe Rm 5468WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1860' FNL & 1900' FWL Section 27 SENW
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: U-29959
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: USA
9. WELL NO.: 22-27
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NW/4 Section 27 T39S R18E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 15 miles north of Mexican Hat, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1860' / 540'
16. NO. OF ACRES IN LEASE: 2120
17. NO. OF ACRES ASSIGNED TO THIS WELL: 40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: N/A
19. PROPOSED DEPTH: 2400'
20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6539' GR
22. APPROX. DATE WORK WILL START*: Upon permit approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

SEE 10 POINT PLAN

ATTACHMENTS:
10 POINT PLAN - ATTACHMENT A
BOP EQUIPMENT - ATTACHMENT B
CHOKE MANIFOLD - ATTACHMENT C
SURFACE USE PLAN - ATTACHMENT D
SURVEY PLAT - ATTACHMENT E
VICINITY TOPO MAP - ATTACHMENT F
DRILL PAD LAYOUT - ATTACHMENT G
DRILL PAD CROSS SECTIONS - ATTACHMENT H
PRODUCTION FACILITIES LAYOUT - ATTACHMENT I
ARCHAEOLOGY REPORT FORWARDED TO MINERALS MANAGEMENT SERVICE & BLM UNDER SEPARATE COVER

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-6-82
BY: Norman C. Stout

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 Glen M. Jobe TITLE Administrator Regulatory-Permits DATE 6-9-82

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
APPROVED BY W P Martin TITLE FOR E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR DATE JUL 21 1982
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

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

operator

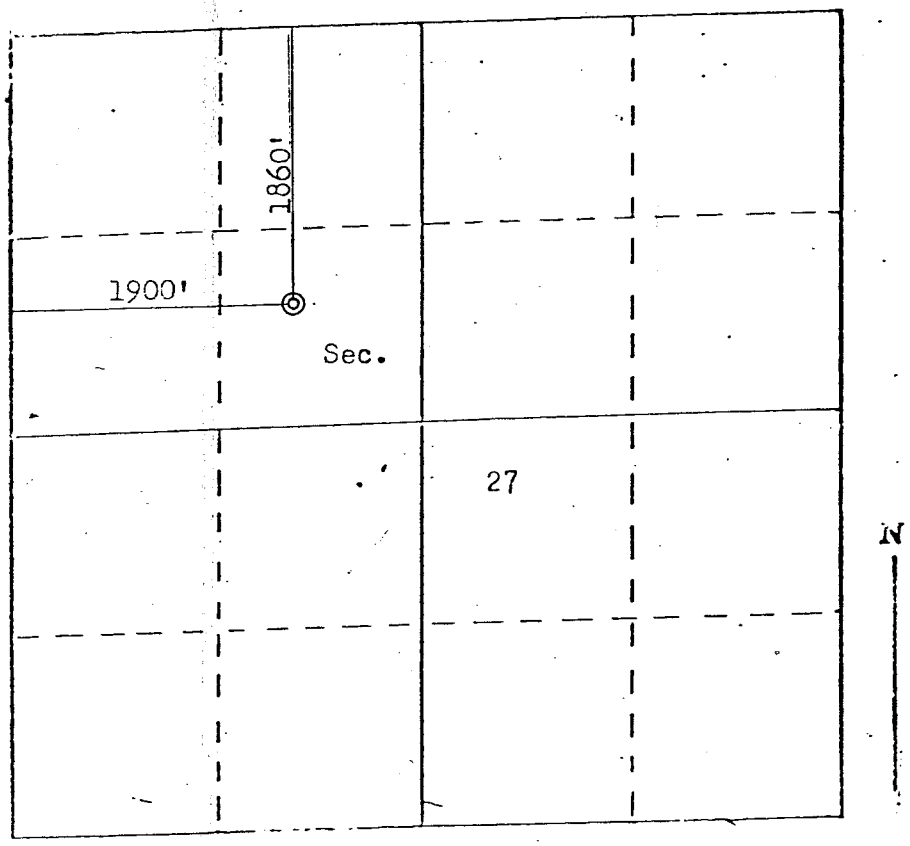
COMPANY SHELL OIL COMPANY

LEASE USA WELL NO. 22-27

SEC. 27 T. 39S R. 18E
SAN JUAN COUNTY, UTAH

LOCATION 1860'FNL 1900'FWL

ELEVATION 6539 ungraded ground



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 OR UNDER MY SUPERVISION AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

Registered Land Surveyor.
3950

SURVEYED May 11, 19 82

ATTACHMENT E

FARMINGTON, N. M.

Shell Oil Company

P.O. Box 831
Houston, Texas 77001

July 28, 1982

Mr. Ronald J. Firth, Chief Petroleum Engineer
State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Mr. Firth:

USA 21-17
SECTION 17, T40S-R19E
SAN JUAN COUNTY, UTAH

USA 22-27
SECTION 27, T39S-R18E
SAN JUAN COUNTY, UTAH

Enclosed are copies of the approved federal drill permits and survey plats for the subject [redacted]. It is our understanding that these permits will serve and be accepted as approved State of Utah drill permits.

Should additional information or clarification be necessary to expedite permit approval, please contact me at (713) 870-3216.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division

LAM

Enclosures

RECEIVED
JUL 30 1982
DIVISION OF
OIL, GAS & MINING

as per telecom between Ann & Shell
APD will be submitted
Ann 8-2-82

August 4, 1982

Shell Oil Company
P. O. Box 831
Houston, Texas 77001

Attn: G. M. Jobe

Dear Mr. Jobe:

Our records indicate you have filed federal application for permit to drill Well No. 22-27, but have not yet filed application with the State of Utah. Applications must be approved by the State in addition to federal approval in order to commence drilling.

Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable.

Respectfully,

Norm

Norm Stout

NS/as

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 4, 1982

Shell Oil Company
P. O. Box 831
Houston, Texas 77001

Attn: G. M. Jobe

Dear Mr. Jobe:

Our records indicate you have filed federal application for permit to drill Well No. 22-27, but have not yet filed application with the State of Utah. Applications must be approved by the State in addition to federal approval in order to commence drilling.

Please provide the necessary application for permit to drill, or otherwise advise on the status of the permit. A copy of the federal application with attachments and cover letter is acceptable.

Respectfully,

Norm Stout

NS/as

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

8-6-82 - The attached ltr requesting APD was not sent due to telecom between Ron F and Shell.

Ron,

... for your review prior to final processing.

[illegible]

DL
RJP

** FILE NOTATIONS **

DATE: 8-6-82

OPERATOR: Shell Oil

WELL NO: USA 22-27

Location: Sec. 27 T. 39S R. 18E County: San Juan

File Prepared: ✓ Entered on N.I.D: ☐

Card Indexed: ☐ Completion Sheet: ☐

API Number 43-037-30801

CHECKED BY:

Petroleum Engineer: OK

Director:

Administrative Aide: OK

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. Rule C-3 ☒

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

Lease Designation Fed. Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☑ P.I. ☑

August 9, 1982

Shell Oil Company
P. O. Box 831
Houston, Texas 77001

RE: Well No. USA 22-27
Sec. 27, T. 29 S, R. 18 E
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

RONALD J. FIRTH - Engineer Office: 533-5771 Home: 571-6068	OR	CLEON B. FEIGHT - Director Office: 533-5771 Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30801.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
Minerals Management Service
Enclosure

NOTICE OF SPUD

Company: Shell Oil

Caller: Debbie Lampton

Phone: #713-870-3218

Well Number: USA 22-27

Location: SE/4 NW/4 Sec. 27 T.39, R.18E.

County: San Juan State: UT

Lease Number: U-29959

Lease Expiration Date:

Unit Name (If Applicable):

Date & Time Spudded: 9-6-82 2:30 P.M.

Dry Hole Spudder/Rotary:

Details of Spud (Hole, Casing, Cement, etc.) 13 3/8" to 102'

Rotary Rig Name & Number: Brinkerhoff Signal #79

Approximate Date Rotary Moves In: 9-5-82

FOLLOW WITH SUNDRY NOTICE

Call Received By: Cindy

Date: 9-7-82 8:45 A.M.

cc: Well file
MMS Vernal
~~UT~~ St. O & G
APD
TAM

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SHELL OIL COMPANY

WELL NAME: USA 22-27

SECTION SENW 27 TOWNSHIP 39S RANGE 18E COUNTY San Juan

DRILLING CONTRACTOR Brinkerhoss Signal

RIG # 79

SPUDDED: DATE 9-6-82

TIME 2:30 PM

HOW Rotary

DRILLING WILL COMMENCE

REPORTED BY Debbie Lempton

TELEPHONE # 713-870-3218

DATE 9-7-82 SIGNED AS

Shell Oil Company

P.O. Box 831
Houston, Texas 77001

September 7, 1982

Mr. Michael T. Minder, Geological Engineer
State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84116

Dear Mr. Minder:

SHELL-USA 22-27
SECTION 27, T39S-R18E
SAN JUAN COUNTY, UTAH

As follow-up to the telephone conversation between Arlene Sollis of your office and Debbie Lampton of our office on September 7, 1982 whereby you were given verbal notification of the spud date of subject well, this is written notification that USA 22-27 spudded Sepember 6, 1982.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division

djl

RECEIVED
SEP 10 1982
DIVISION OF
OIL, GAS & MINING

Form OGC-3

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

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

56 64 01 M6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY XX Other

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

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 831, Houston, TX 77001

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1860' FNL & 1900' FWL of Section 27
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-29959
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: USA
9. WELL NO.: 22-27
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE/4 NW/4 Section 27 T39S-R18E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-6-82	9-16-82	P&A	6539' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
			→		

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

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/Sonic/SP/GR/CAL FDC/CNL DLL/MFSL

27. WAS WELL CORED: Yes

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"		102'			
8-5/8"	24#	789'		350 sx Class "H"	

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*): NA

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NA	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
P&A	P&A	P&A

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: See attached drilling history.

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

SIGNED S. M. Jobe TITLE Administrator Regulatory-Permits DATE 9-22-82

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.
			Core #1 2090-2150', Rec. 60' Desert Creek
			Core #2 2150-2167', Rec. 17' Desert Creek
			Core #3 2168-2169', Rec. 1' Desert Creek
			Core #4 2169-2196.5', Rec. 27.5' Desert Crk
			Core #5 2197-2231', Rec. 34' Desert Creek

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Cedar Mesa	Surface	
U. Hermosa	1120'	
P-50 Shale	2047'	
Desert Creek	2068'	
P-40 Shale	2272'	
Pre Desert Crk	2284'	

Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$ 43M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'

9-6-82
Status: Rigging up.

9-7-82
166/50//1/7.5. Status: Drilling
Spud @ 2:30 PM, 9-6-82.
Location: 1860' FNL & 1900' FWL,
Section 27, T39S-R18E
San Juan County, Utah

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$ 52M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'

380/214//2/7.5. Status: Drilling.
Dev. 1/2° @ 250'.

SEP 0 8 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$ 58M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

787/407//3/7.5. Status: W.O.C.
Ran 20 Jts 8-5/8" 24# K-55 csg to 789'.
Cmt w/350 sx Class "H", 2% CACL, 1/4#/sx flocele.
Good returns.
Dev. 1/2° @ 527', 1/4° @ 780'.

SEP 0 9 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$ 97M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

960/173//4/7.5. Status: Drilling.
W.O.C. 10 sx top job. Weld & test head.
Drld plug insert, cmt & shoe.

SEP 1 0 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$123M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

9-11-82
1774/814//5/7.5. Status: Drilling.
Dev. 0° @ 1290'.

9-12-82
2075/301//6/7.5. Status: Drilling.
Lost returns, lost approx. 1000 bbls.
Mud: (.452) 8.7 x 38 x 9

9-13-82
2133/58//7/7.5. Status: Coring.
Core #1, from 2090' to 2133'.
Dev. 1/2° @ 2090'.
Mud: (.458) 8.8 x 38 x 8.4

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$ M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

2167/34//7/7.5. Status: Circ & build vol.
Core #1, 2090' to 2150, cut & rec. 60'.
Core #2, 2150' to 2167', had partial returns.
Lost 150 bbls.
Mud: (.457) 8.8 x 38 x 9

SEP 14 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$141M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

2197/30//9/7.5. Status: Coring.
Core #3, 2168' to 2169', cut 1' rec. 1'.
Core #4, 2169' to 2197'.
Mud: (.452) 9.7 x 39 x 8.2

SEP 15 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$148M/$219M
WI - 60%
GR 6539'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

2230/33//10/7.5. Status: Coring.
Core #4, 2169' to 2197', cut & rec 28'.
Core #5, 2197' to 2230'.
Mud: (.452) 8.7 x 39 x 8.2

SEP 16 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$170M/$219M
WI - 60%
GL 6522', KB 6537'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

2340/110//11/7.5. Status: Logging.
LD Core, cut & rec 33'.
Mud: (.458) 8.8 x 38 x 8.2

SEP 17 1982

UTAH

MONUMENT UPLIFT
Shell-USA 22-27
(WC) Brk Signal #79
2355' Desert Creek Test
$222M/$219M
WI - 60%
GL 6522', KB 6537'
13-3/8" csg @ 102'
8-5/8" csg @ 789'

9-18-82
TD 2340/0//12/7-1/2. Status: P&A - capping well.
Set 65 sx plug, Class "H", 1975-2175'.
Set 75 sx plug, Class "H", 687-887'.
Set 10 sx surface plug, Class "H".

9-19-82
TD 2340//13/7-1/2. Status: Rig release.
Rig released at 7:00 AM, 9-18-82.
Cost $222,394

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 831, Houston, TX 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1860' FNL & 1900' FWL of Section 27

5. LEASE DESIGNATION AND SERIAL NO.: U-29959

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: USA

9. WELL NO.: 22-27

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NW/4 Section 27 T39S-R18E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6539' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
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.)*

Verbal approval to P&A

Set plugs as follows on 9-17-82 per attached prognosis:

65 sx plug, Class "H", 1975-2175'
75 sx plug, Class "H", 687-887'
10 sx surface plug, Class "H".

Rig released on 9-18-82.

9/29/82

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

SIGNED S. M. Jobe TITLE Administrator Reg-Permits DATE 9-22-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Plug and Abandonment Procedures
Shell USA 22-27

8 5/8" 24# @ 787' Surface
Cement to Surface
7 7/8" hole to 2340'

1. Trip in the hole open-ended with drill pipe.

2. Circulate mud, bottoms up.

3. Set the following plugs with Class 'H' cement. 2½-3 hours estimated pumpability. Use the balanced plug method. Pump 10 bbls of a fresh water preflush, and adequate fresh water behind to balance the plug.

± 2070' - Desert Creek - ~~180'~~ 200' of fill up across the formation; 50 sack minimum based on 7 7/8" hole. Verify formation top with logs. Base of the plug at @2160' and the top of the plug at ±1980'.

787' casing shoe - 200'+ of fill up, 70 sack minimum ½ in and ½ out of the surface casing.

At surface, 10 sack plug

4. Use the caliper log to estimate hole.

5. Cut the surface casing at least four feet below ground level. Weld on a plate with the well name and operator as a marker.

6. Inform the Mineral Management Service and the State of Utah Natural Resources and Energy, Oil, Gas and Mining.

Phone numbers:

Ronald J. Firth - Engineer
Office - 801-533-5771
Home - 801-571-6068

or

Cleon B. Feight - Director
Office - 801-533-5771
Home - 801-466-4455

Recommended by K. Wilcken

Approved: J. D. D'Agostino
Drilling Superintendent

56 64 03

FILE IN TRIPLICATE
FORM OGC-8-X

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

RECEIVED
SEP 24 1982
DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number USA 22-27

Operator SHELL OIL COMPANY Address P.O. BOX 831 HOUSTON, TX. 77001

Contractor BRINKERHOFF / SIGNAL Address ROUTE 3, BOX 445 FARMINGTON, N.M. 87401

Location SE ¼ NE ¼ Sec. 27 T. 39S R. 18E County SAN JUAN

Water Sands

Depth		Volume	Quality
From	To	Flow Rate or Head	Fresh or Salty
1.			
2.		NONE ENCOUNTERED	
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

P & C

Remarks TOP OF DESERT CREEK @ 2075'

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

CORE ANALYSIS RESULTS

for

SHELL OIL COMPANY

SHELL FEDERAL SUN 22-27 WELL
WILDCAT
SAN JUAN COUNTY, UTAH

RECEIVED
OCT 25 1982
DIVISION OF
OIL, GAS & MINING

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GG/DS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION	
1	2090-91	0.05		9.0	26.1	46.7	2.68	LM BRN VFXLN PP-VUG	OVF
2	2091-92	0.12		12.0	47.1	37.0		LM BRN VFXLN PP-VUG	OVF
3	2092-93	0.03		10.2	39.1	45.0		LM BRN VFXLN PP-VUG	OVF
4	2093-94	0.03		5.3	33.7	52.9	2.66	LM BRN VFXLN PP-VUG	OVF
5	2094-95	<0.01		9.0	38.3	42.8		LM BRN VFXLN PP-VUG	OVF
6	2095-96	0.04		9.2	34.9	47.9		LM BRN VFXLN PP-VUG	OVF
7	2096-97	0.01		7.6	31.1	53.9	2.70	LM BRN VFXLN PP-VUG	OVF
8	2097-98	<0.01		12.3	25.8	64.6		LM BRN VFXLN PP-VUG	OVF
9	2098-99	0.08		4.5	28.1	51.5		LM BRN VFXLN PP-VUG	OVF
10	2099 -0	<0.01		1.6	35.4	20.3	2.72	LM GRY VFXLN STY	OVF
11	2100 -1	<0.01		1.0	10.7	42.8		LM GRY VFXLN	OVF
12	2101 -2	0.45		1.4	7.5	30.1		LM GRY VFXLN STY	OVF
13	2102 -3	<0.01		1.8	4.8	57.6	2.71	LM GRY VFXLN	OVF
14	2103 -4	<0.01		2.1	4.9	59.0		LM GRY VFXLN	
15	2104 -5	<0.01		1.9	11.0	66.0		LM GRY VFXLN	
16	2105 -6	<0.01		1.1	0.0	30.6	2.71	LM GRY VFXLN	
17	2106 -7	<0.01		1.0	0.0	44.7		LM GRY VFXLN	
18	2107 -8	<0.01		1.2	8.8	35.3		LM GRY VFXLN	
19	2108 -9	<0.01		1.3	0.0	21.2	2.72	LM GRY VFXLN	
20	2109-10	<0.01		0.7	0.0	29.8		LM GRY VFXLN	
21	2110-11	<0.01		0.9	0.0	25.0		LM GRY VFXLN	
22	2111-12	<0.01		1.0	0.0	22.7	2.71	LM GRY VFXLN	
23	2112-13	0.19		0.9	0.0	24.1		LM GRY VFXLN STY	OVF
24	2113-14	0.01		1.2	0.0	35.3		LM GRY VFXLN STY	OVF
25	2114-15	0.01		15.0	10.9	80.4	2.70	LM BRN VFXLN PP-VUG	OVF

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GG;DS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION	
26	2115-16	0.63		8.2	27.4	49.8		LM GRY VFXLN PP-VUG STY	OVF
27	2116-17	<0.01		6.6	11.0	63.1		LM GRY VFXLN PP-VUG	OVF
28	2117-18	0.01		14.9	9.9	77.5	2.70	LM BRN VFXLN PP-VUG	OVF
29	2118-19	0.01		10.6	0.9	88.3		LM BRN VFXLN PP-VUG	OVF
30	2119-20	<0.01		7.4	9.5	68.1		LM BRN VFXLN PP-VUG	
31	2120-21	0.01		10.3	14.6	63.3	2.72	LM BRN VFXLN PP-VUG	
32	2121-22	<0.01		9.6	20.0	59.0		LM GRY VFXLN PP-VUG STY	OVF
33	2122-23	0.01		5.9	1.8	80.6		LM GRY VFXLN PP-VUG	OVF
34	2123-24	<0.01		2.7	12.4	59.3	2.71	LM GRY VFXLN PP-VUG	OVF
35	2124-25	0.01		3.7	20.0	51.5		LM GRY VFXLN PP-VUG	OVF
36	2125-26	0.11		4.6	20.2	49.5		LM GRY VFXLN PP-VUG	OVF
37	2126-27	0.01		10.1	14.1	47.1	2.70	LM GRY VFXLN PP-VUG R	OVF
38	2127-28	<0.01		2.6	8.2	57.2		LM GRY VFXLN R	OVF
39	2128-29	<0.01		1.2	8.9	17.9		LM GRY VFXLN	OVF
40	2129-30	<0.01		1.3	3.1	37.6	2.70	LM GRY VFXLN	
41	2130-31	<0.01		1.4	7.5	29.8		LM GRY VFXLN	
42	2131-32	<0.01		1.2	8.9	35.7		LM GRY VFXLN	CVF
43	2132-33	<0.01		1.0	0.0	19.7	2.71	LM GRY VFXLN	CVF
44	2133-34	<0.01		1.4	0.0	31.9		LM GRY VFXLN	CVF
45	2134-35	<0.01		1.5	7.1	28.2		LM GRY VFXLN	CVF
46	2135-36	<0.01		2.1	0.0	32.8	2.68	LM GRY VFXLN	OVF
47	2136-37	<0.01		0.9	12.6	25.1		LM GRY VFXLN	
48	2137-38	<0.01		0.8	12.8	25.7		LM GRY VFXLN	
49	2138-39	<0.01		6.0	0.0	17.8	2.72	LM GRY VFXLN SL/PP-VUG	CVF
50	2139-40	<0.01		3.2	0.0	65.9		LM GRY VFXLN SL/PP-VUG	OVF

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GG/DS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO HORZ.	AIR (MD) VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION
51	2140-41	<0.01		0.9	0.0	23.9		LM GRY VFXLN STY CVF
52	2141-42	<0.01		1.2	0.0	17.7	2.71	LM GRY VFXLN
53	2142-43	<0.01		1.0	10.4	20.8		LM GRY VFXLN STY CVF
54	2143-44	<0.01		1.4	7.4	44.7		LM GRY VFXLN CVF
55	2144-45	<0.01		0.7	0.0	26.4	2.70	LM GRY VFXLN OVF
56	2145-46	<0.01		0.9	0.0	24.2		LM GRY VFXLN
57	2146-47	<0.01		1.3	0.0	17.1		LM GRY VFXLN
58	2147-48	<0.01		0.8	0.0	34.0	2.71	LM GRY VFXLN
59	2148-49	<0.01		0.6	0.0	37.3		LM GRY VFXLN OVF
60	2149-50	<0.01		2.6	8.0	56.3		LM DKGRY VFXLN SL/SHL OVF
61	2150-51	<0.01		0.6	11.9	47.8	2.71	LM GRY VFXLN
62	2151-52	<0.01		1.0	10.9	21.7		LM GRY VFXLN STY
63	2152-53	<0.01		1.0	10.9	21.9		LM GRY VFXLN STY OVF
64	2153-54	<0.01		1.0	11.5	45.9	2.72	LM GRY VFXLN STY CVF
65	2154-55	<0.01		1.8	5.8	70.0		LM GRY VFXLN SL/SHL STY CVF
66	2155-56	<0.01		3.0	3.5	78.0		LM GRY VFXLN SL/SHL SL/PP-VUG CVF
67	2156-57	<0.01		3.3	6.9	54.9	2.70	LM GRY VFXLN SL/PP-VUG OVF
68	2157-58	0.01		11.9	18.3	63.4		LM LTBRN VFXLN PP-VUG OVF
69	2158-59	0.08		11.0	25.5	65.5		LM LTBRN VFXLN PP-VUG
70	2159-60	0.01		10.1	17.5	70.2	2.71	LM LTBRN VFXLN PP-VUG STY
71	2160-61	<0.01		9.3	7.6	71.4		LM LTBRN VFXLN PP-VUG STY R
72	2161-62	<0.01		5.1	14.4	65.7		LM LTGRY VFXLN SL/PP-VUG STY R OVF
73	2162-63	<0.01		1.1	0.0	41.8	2.72	LM GRY VFXLN OVF
74	2163-64	<0.01		0.8	0.0	26.7		LM GRY VFXLN OVF
75	2164-65	<0.01		0.8	0.0	51.9		LM GRY VFXLN

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GG/DS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION	
76	2165-66	<0.01		1.0	0.0	31.7	2.71	LM GRY VFXLN CHT	
77	2166-67	<0.01		0.6	0.0	37.1		LM GRY VFXLN	
78	2167-68	<0.01		0.8	0.0	52.0		LM GRY VFXLN	
79	2168-69	<0.01		0.8	5.9	58.6	2.72	LM GRY VFXLN	
	2169-2170							LIMESTONE - NO ANALYSIS	
80	2170-71	<0.01		1.3	8.0	63.6		LM GRY VFXLN CHT	
	2171-2172							LIMESTONE - NO ANALYSIS	
81	2172-73	<0.01		2.1	5.1	71.3		LM GRY VFXLN	
	2173-2174							LIMESTONE - NO ANALYSIS	
82	2174-75	<0.01		1.1	0.0	78.9	2.72	LM GRY VFXLN	
	2175-2176							LIMESTONE - NO ANALYSIS	
83	2176-77	<0.01		1.2	0.0	73.5		LM GRY VFXLN	
	2177-2178							LIMESTONE - NO ANALYSIS	
84	2178-79	<0.01		1.4	7.7	46.4		LM GRY VFXLN	
	2179-2180							LIMESTONE - NO ANALYSIS	
85	2180-81	<0.01		1.0	5.2	72.4	2.71	LM GRY VFXLN	
	2181-2182							LIMESTONE - NO ANALYSIS	
86	2182-83	<0.01		2.5	4.4	69.6		LM GRY VFXLN	OVF
	2183-2184							LIMESTONE - NO ANALYSIS	
87	2184-85	<0.01		3.7	2.8	84.6		LM GRY VFXLN	
	2185-2186							LIMESTONE - NO ANALYSIS	
88	2186-87	<0.01		1.1	4.3	68.8	2.70	LM GRY VFXLN	OVF
	2187-2188							LIMESTONE - NO ANALYSIS	
89	2188-89	<0.01		2.6	0.0	82.9		LM GRY VFXLN	OVF
	2189-2190							LIMESTONE - NO ANALYSIS	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GG/DS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION	
90	2190-91	<0.01		1.6	0.0	64.8		LM GRY VFXLN	OVF
	2191-2192							LIMESTONE - NO ANALYSIS	
91	2192-93	<0.01		1.0	3.7	88.0	2.70	LM GRY VFXLN	
	2193-2194							LIMESTONE - NO ANALYSIS	
92	2194-95	<0.01		1.0	0.0	21.9		LM GRY VFXLN	
	2195-2196							LIMESTONE - NO ANALYSIS	
93	2196-97	<0.01		3.2	6.6	72.8		LM GRY VFXLN CHT	
	2197-2198							LIMESTONE - NO ANALYSIS	
94	2198-99	<0.01		1.0	9.1	54.5	2.70	LM GRY VFXLN	OVF
	2199-2200							LIMESTONE - NO ANALYSIS	
95	2200 -1	<0.01		0.8	0.0	27.8		LM GRY VFXLN	
	2201-2202							LIMESTONE - NO ANALYSIS	
96	2202 -3	<0.01		1.0	10.8	21.6		LM GRY VFXLN	CVF
	2203-2204							LIMESTONE - NO ANALYSIS	
97	2204 -5	<0.01		1.3	14.4	28.8	2.71	LM GRY VFXLN	
	2205-2206							LIMESTONE - NO ANALYSIS	
98	2206 -7	<0.01		0.7	0.0	62.4		LM GRY VFXLN	
	2207-2208							LIMESTONE - NO ANALYSIS	
99	2208 -9	<0.01		1.1	46.5	37.2		LM GRY VFXLN	OVF
	2209-2210							LIMESTONE - NO ANALYSIS	
100	2210-11	<0.01		1.4	5.5	65.8	2.70	LM GRY VFXLN FOSS	OVF
	2211-2212							LIMESTONE - NO ANALYSIS	
101	2212-13	<0.01		1.8	6.1	72.6		LM GRY VFXLN FOSS	
	2213-2214							LIMESTONE - NO ANALYSIS	
102	2214-15	<0.01		2.5	8.4	75.2		LM GRY VFXLN	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

SHELL OIL COMPANY
SHELL FED. SUN 22-27
WILDCAT
SAN JUAN COUNTY

FORMATION : DESERT CREEK
DRLG. FLUID: WBM
LOCATION : SE,NW SEC.27-39S-18E
STATE : UTAH

DATE : 9-16-82
FILE NO. : RP-3-3231
ANALYSTS : GOIDS
ELEVATION: 6552 KB

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION	
	2215-2216							LIMESTONE - NO ANALYSIS	
103	2216-17	<0.01		1.8	10.1	60.8	2.71	LM GRY VFXLN	
	2217-2218							LIMESTONE - NO ANALYSIS	
104	2218-19	<0.01		1.9	27.5	55.0		LM GRY VFXLN	
	2219-2220							LIMESTONE - NO ANALYSIS	
105	2220-21	<0.01		2.1	5.2	62.2		LM GRY VFXLN FOSS	
	2221-2222							LIMESTONE - NO ANALYSIS	
106	2222-23	<0.01		1.5	5.0	80.3	2.70	LM GRY VFXLN FOSS	HVF
	2223-2224							LIMESTONE - NO ANALYSIS	
107	2224-25	<0.01		2.3	4.6	83.3		LM GRY VFXLN FOSS	HVF
	2225-2226							LM GRY VFXLN FOSS	
108	2226-27	<0.01		0.8	13.6	54.5		LM GRY VFXLN	CVF
	2227-2228							LIMESTONE - NO ANALYSIS	
109	2228-29	<0.01		3.0	0.0	83.4	2.72	LM GRY VFXLN FOSS	
	2229-2230							LIMESTONE - NO ANALYSIS	

BOYLES LAW HELIUM POROSITY RUN ON SAMPLES WITH GRAIN DENSITY.

2090 - 2169 - BELIEVED TO BE ESSENTIALLY NONPRODUCTIVE DUE TO LOW PERMEABILITY.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

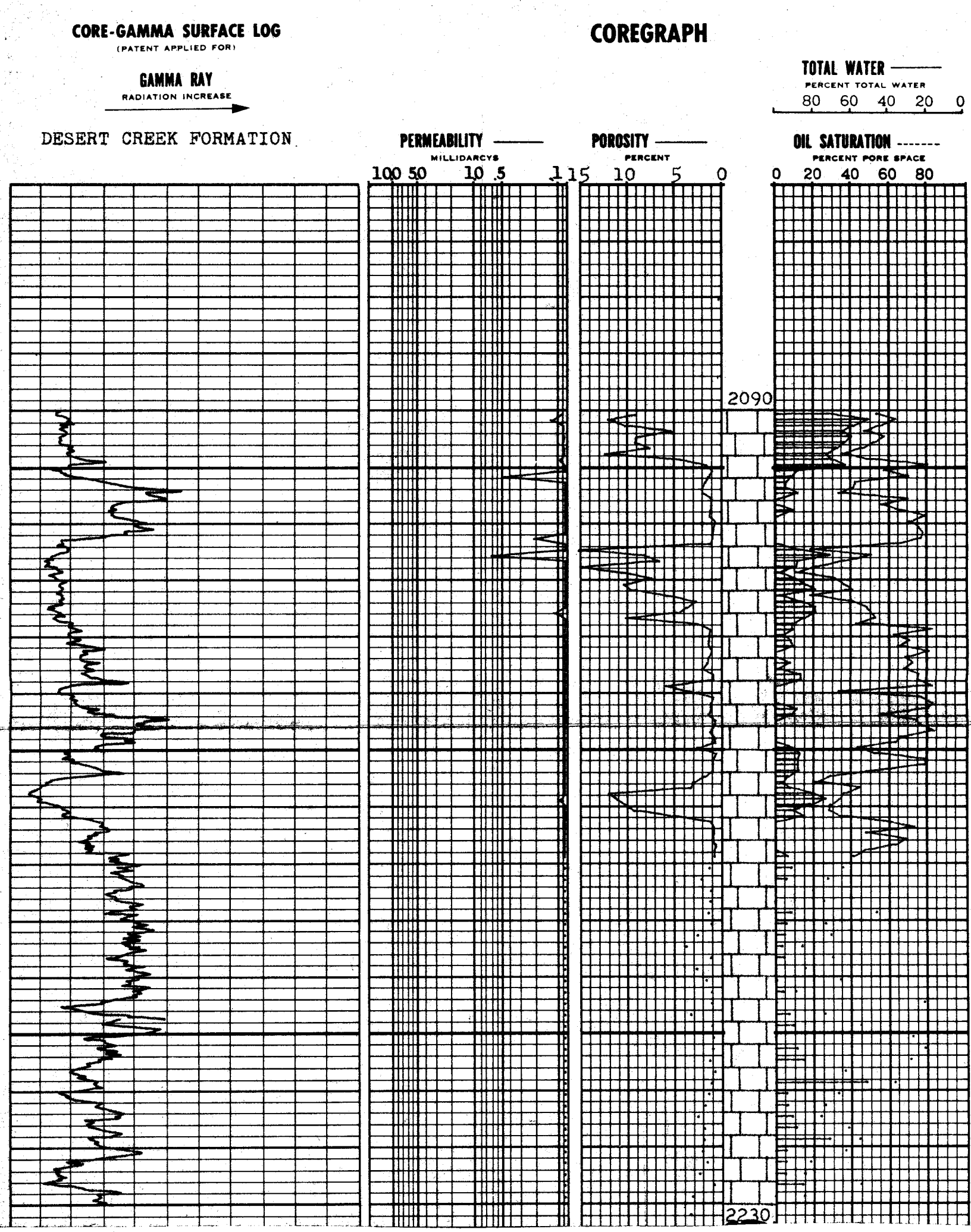
JOB NO.	RP-3-003231	
FORMATION	DESERT CREEK	
DEPTH INTERVAL	2090	2169
INTERVAL THICKNESS (FEET)	79	
FEET INCLUDED IN AVERAGE	79	
TOTAL PERMEABILITY	2.49	
AVERAGE PERM ARITHMETIC	0.03	
AVERAGE PERMEABILITY GEOMETRIC	0.01	
TOTAL POROSITY	308.8	
AVERAGE POROSITY	3.9	
AVERAGE B/A-F	303.2	
TOTAL OIL SATURATION	805.7	
OIL SATURATION ARITHMETIC AVER.	10.2	
OIL SATURATION POR. AVER.	17.1	
TOTAL WATER SATURATION	3528.0	
WATER SAT. ARITHMETIC AVERAGE	44.7	
WATER SAT. POR. AVER.	56.0	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	SHELL OIL COMPANY	FIELD	WILDCAT	FILE	RP-3-003231
WELL	SHELL FED. SUN 22-27	COUNTY	SAN JUAN	DATE	9-16-82
LOCATION	SE,NW, SEC.27-39S-18E	STATE	UTAH	ELEV.	6552 KB

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'