

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief *Paul*
Approval Letter *5-15*
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.....

SHC Sonic GR..... Lat..... Mi-L..... Sonic.....

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER Exploratory
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1600 Morris Road, Babersfield, California

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1978' south of the north line and 735' east of the west line of Section 21, T. 25 S., R. 18 E., S.1.E. 6M.
At proposed prod. zone FNL / NE 50 NW / FNL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 735 Ft.

16. NO. OF ACRES IN LEASE 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH 7900'

20. ROUGH OR EXACT BOUNDARIES

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5152' Gr.

MISS.

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
26"	20"		40'
15"	10-3/4"	40.5#	800'

Surface Formation: Quaternary gravel.

1. Drill 26" hole to 40' and set 20" subconductor pipe.
2. Drill 15" hole to 800'. Run and cement 800' of 10-3/4", 40.5# with 500 sacks of cement.
3. Install 10" series 900 hydraulically operated oval Shaffer with 80 gal. accumulator.
4. Drill 8-3/4" hole to 7900'.

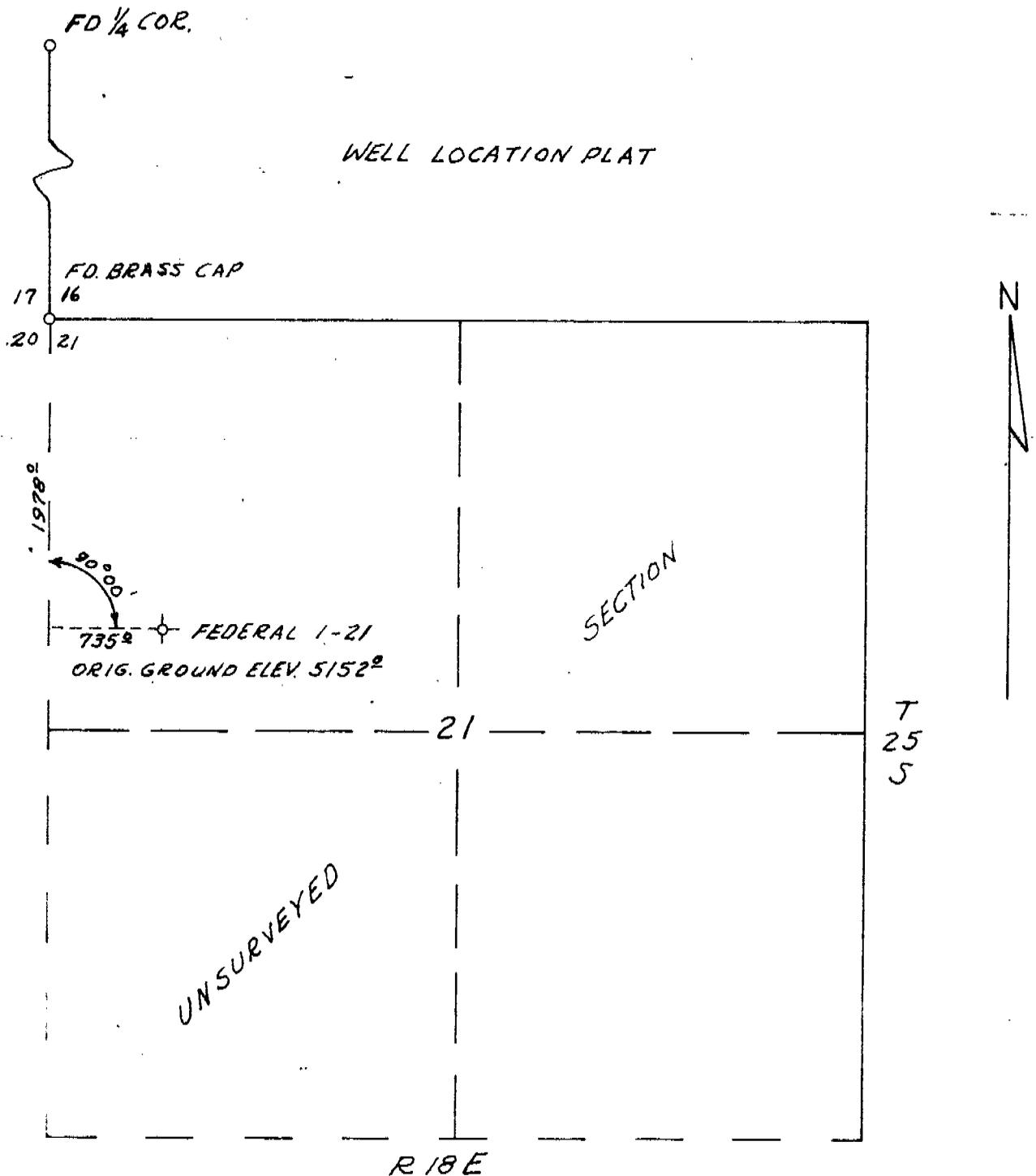
This is a prospect well, and casing program will depend upon formation. We request this information be treated as confidential.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present 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 JAMA Douglas TITLE _____ DATE MAY 1969

(This space for Federal or State office use)
PERMIT NO. 43-019-30033 APPROVAL DATE _____

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



John F. Hoag
 UTA - REG'D LAND SURVEYOR No 1963

SHELL OIL COMPANY
 FEDERAL 1-21 WELL LOCATION IN
 SW 1/4, NW 1/4, SEC. 21, T. 25 S., R. 18 E.
 SALT LAKE B. & M.
 GRAND COUNTY, UTAH
 SCALE: 1" = 1000' MAY 2, 1969
 TRANSIT-CHAIN SURVEY

ELEV. FROM U.S.G.S. Δ WHITE, SEC. 9, (5484)
 BY VERTICAL ANGLES

Bakersfield, Calif.

Bob Sprouts

Shell - Fed 1-21

see 21 T 85SR18E

T. D. 6875'

Cemented 5" - 18

847' - 10³/₄ - 40.5 # 55/23000

top of Monks

7" @ 4882 - N 80/350 sh

top @ 4900 ft - @ top
of Gravel

5" line - both - 6873

↓ 18 ft NBB

top of line 4746' / 581' cap.
of No. 1
cement.

Perf - 6697 - 6740

Intersalt marker -

Paradox - blowout -

acidized - ~~case~~ made

360 bbl oil

OP. - 5150 psi

BP = ~~at~~ down

set permanent

6597 set permanent

Cont error bridge plug.

* then look at
other markers



16
16
32

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

May 12, 1969

Shell Oil Company
1600 Norris Road
Bakersfield, California

Gentlemen:

Attached is an approved copy of your permit to drill the Federal #1 (1-21), SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 25 S., R. 18 E., Grand County, Utah, on lease Utah 5949.

We have been advised by our geologists that this area may be underlain by bedded deposits of potash associated with marine evaporites in the Paradox formation. So in addition to the normal logs and reports as outlined in the conditions of approval (attached), we would appreciate your recording and furnishing any pertinent data that you may obtain with regard to potash or saturated brines that may be encountered. Also, you must consider adequate protective measures of any valuable potash zones encountered at the time you consider setting casing across such zones and at the time of abandonment.

Your cooperation in these matters is appreciated and if you have any questions, please contact this office.

Sincerely yours,

(ORIG. SGD.) R. A. SMITH

Rodney A. Smith,
District Engineer

Attachment

cc: Utah O&G Con. Com. ✓

May 12, 1969

Shell Oil Company
1600 Norris Road
Bakersfield, California

Re: Well No. Federal #1-21
Sec. 21, T. 25 S, R. 18 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

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, Salt Lake City
OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spudded-in within said period.

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

The API number assigned to this well is 43-019-30033 (See Bulletin D-12 published by the American Petroleum Institute).

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FREIGHT
DIRECTOR

CBF:sd
Enclosures: Forms

cc: U.S. Geological Survey
Rod Smith, District Engineer
8416 Federal Building
Salt Lake City, Utah 84111

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPlicate*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**Sanford C.R. #4
U-3949**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Section 21, T. 25 S.,
R. 18 E., S186M**

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER **Exploratory**

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1600 Norris Rd., Bakersfield, Calif.

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

**1978' south of the north line and 735' east of the
west line of Section 21, T. 25 S., R. 18 E., S.L.B.M.**

14. PERMIT NO.

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

5152' Gr.

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) **Monthly Report of Operations**

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

Month of May 1969

Spudded 12:01 A.M. 5-30-69. Drilled to 712'.

Note: We request this information be treated as confidential.

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

SIGNED

TITLE

DATE

JUN 3 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Sanford C.R. #1
Salt Lake U-7121A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Exploratory</p> <p>2. NAME OF OPERATOR Shell Oil Co.</p> <p>3. ADDRESS OF OPERATOR 1600 Morris Rd., Bakersfield, Calif.</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 800' from the east line and 2050' from the north line of Section 26, T. 21 S., R. 17 E., S.L.B.&M.</p> <p>14. PERMIT NO.</p> <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4438' Gr.</p>	<p>7. UNIT AGREEMENT NAME N.A.</p> <p>8. FARM OR LEASE NAME Federal #1</p> <p>9. WELL NO. No. 1-26</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 26, T. 21 S., R. 17 E., S.L.B.&M.</p> <p>12. COUNTY OR PARISH Grand</p> <p>13. STATE Utah</p>
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16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Monthly Report of Operations <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(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.)*

Month of May 1969

Depth as of May 31, 1969-9168'.

Ran IES, DILL and Sonic log at 7557'. Drilled to 8271' and made DST #3, 8236-8271'. Open one hour, recovered 19 bbbls. slightly gassy drilling mud. Ran Laterolog, FDC, Sonic log, and SNP. On May 13, 1969, 7", 23 lb/ft. casing was landed and cemented at 8271' with 350 sacks Class G cement, mixed with 1% CFR-2, 4% gel, and 6.4% NaCl, plus 200 sacks neat cement mixed with 1% CFR-2 and 4.2% NaCl. Good circulation during cementing. Pumped plug with 200 psi, held O.K. After 12 hours, ran temperature survey which showed cement top to be at 5475½'.

Note: We request this information to be treated as confidential.

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

SIGNED _____ TITLE _____ DATE **1969 5 31**

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Sanford C.R. #4 U5949

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

#1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 21, T. 25 S., R. 18 E., S.L.B.&M.

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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 **Exploratory**

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1600 Norris Rd., Bakersfield, California

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1978' south of the north line and 735' east of the west line of Section 21, T. 25 S., R. 18 E., S.L.B.&M.

14. PERMIT NO.

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

5152' Gr.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Running and cementing casing <input checked="" type="checkbox"/>	

(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.)*

On May 2, 1969, 10-3/4" casing was landed and cemented at 847' with 500 sacks Class "A" cement, first 300 sacks mixed with 8% gel and last 200 sacks treated with 3% CaCl₂. Good returns while cementing, partial to good returns while displacing. Cement fall to 140' outside of 10-3/4". Filled to surface around 10-3/4" casing with 4-1/2 cubic yards of "Ready-Mix" concrete.

Flanged up and tested B.O.P.E. with 1500 psi for 10 min., okay.

Note: We request this information be treated as confidential.

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

SIGNED *[Signature]*

TITLE _____

DATE JUN 11 1969

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Confidential

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company SHELL OIL COMPANY Date 6-23-69

Name of Drilling Contractor Loffland Brothers' Drilling Company

Well Name and Number Federal #1-21 Rig No. Field Wildcat

Section 21 Township 25 South Range 18 East

County Grand Driller Ward Mulford

Number Present 5 Toolpusher Jack Gwinn

Any Lost-Time Accidents While on Location? None

Items Causing Lost-Time Accidents that have been corrected, or which need to be corrected: None

Any New Employees in Crew? No Have Instructions Been Given the New Members? Yes
(all experienced)

	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
Escape Line and Slide -----	<u>X</u>	_____	_____
Ladders, Side Rails, Steps-----	<u>X</u>	_____	<u>X (1)</u>
Walk-Around Floor and Railing -----	<u>X</u>	_____	_____
Engines Guarded -----	<u>X</u>	_____	_____
Rotary Drive Guard -----	<u>X</u>	_____	_____
Fire Control Available -----	<u>X</u>	_____	_____
General Housekeeping -----	<u>X</u>	_____	_____
Hard Hats -----	<u>X</u>	_____	_____
First Aid Kit -----	<u>X</u>	_____	_____
Blowout Preventer Installed -----	<u>X*</u>	_____	_____
Cellar Clean. No Debris -----	<u>X</u>	_____	_____
Cathead -----	<u>X</u>	_____	_____
Safety Belts Available -----	<u>X</u>	_____	_____

Unsafe Practices that might cause a mishap, and recommendations made for a safe method doing the job. None Visible

Driller's, Toolpusher's, or Drilling Superintendent's Reactions: Very Cooperative

Remarks: *Checked after every trip - working good.

(1) ladder needs bolt near dog house ramp

DEPUTY INSPECTOR: Paul W. Burchell - Division of Oil and Gas Conservation

Confidential

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company Shell Oil Co. Date 6/23/69
 Name of Drilling Contractor Lafford Bros Drilling Co.
 Well Name and Number Zed 1-21 Rig No. _____ Field Willcat
 Section 21 Township 25S Range 18E
 County Grand Driller Vard Mulford
 Number Present 5 Toolpusher Jack Elly Lewinn
 Any lost-time accidents while on location None

Items causing lost-time accidents that have been corrected, or which need to be corrected none

Any new employees in crew no Have instructions been given the new crew members yes
 (all experienced)

	(Good) Yes	(Poor) No
Escape Line and Slide	<input checked="" type="checkbox"/>	
Ladders, Side Rails, Steps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>ladder need bolt</u>
Walk-Around Floor and Railing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>near dog -</u>
Engines Guarded	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>hoop ramp</u>
Rotary Drive Guard	<input checked="" type="checkbox"/>	
Fire Control Available	<input checked="" type="checkbox"/>	
General Housekeeping	<input checked="" type="checkbox"/>	
Hard Hats	<input checked="" type="checkbox"/>	
First Aid Kit	<input checked="" type="checkbox"/>	
Blowout preventer installed	<input checked="" type="checkbox"/>	
Cellar clean, No debris	<input checked="" type="checkbox"/>	
Cathead	<input checked="" type="checkbox"/>	
Safety belts available	<input checked="" type="checkbox"/>	

Unsafe practices that might cause a mishap, and recommendations made for a safe method of doing the job. none visible

Drillers, Toolpushers or Drilling Superintendents reactions very cooperative

Remarks * Checked after every trip - worked good.
(Checked to well - site Geologist [Walt] lost
circulation at about 1300' in 4' section - cement squeezed
off and now drilling ahead

Deputy Inspector Paul W. Burchell - Utah Div. of Oil & Gas Conservation

Shell Banknot Ltd

7-6-69

Ed Hoeyprick

AC-805 - 832-7254

Bakersfield Calif.

5 1/2

Sometime tomorrow

Depth 6719 - Pulled up above @ 500' where
hole unloaded / lost Circulator
followed mud weight
backup

1500 - 2000

1365 - White } lost in
1625 - Cutler }

Run 7" - Drill out 6 1/2" bit
+ leave 5 collars. plug on top
and whipstick.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN THIS MANNER*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**Bakersfield C.R. #4
U5949**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Section 21, T. 25 S.,
R. 18 E., S.L.B.&M.**

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER **Exploratory**

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1600 Norris Road, Bakersfield, California

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

At surface **1978' south of the north line and 735' east of the west line of Section 21, T. 25 S., R. 18 E., S.L.B.&M.**

14. PERMIT NO.

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

5152' Gr.

12. COUNTY OR PARISH

Grand

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) **Monthly Report of Operations**

(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.)*

Month of June, 1969.

Spudded well June 1. Set 20" subconductor to 32'. Drilled 15" hole to 847'. Cemented 10-3/4" casing at 847' with 500 sacks API Class "A" (first 300 sacks with 8% gel followed by 200 sacks with 3% calcium chloride). Installed and tested B.O.P.E. with 1500 psi for 10 minutes. Test O.K. Drilled 8-3/4" hole to 1682'. Lost circulation in zones while drilling between 1388' and 1682'. Regained by using lost circulation material and cementing off zones. At 1682', burned out clutch and stuck pipe (June 6). Backed off at 1353' and washed over fish. Recovered fish on June 14. Drilled ahead losing circulation or partial returns while drilling between 1682' and 2083'. Set cement plugs No. 3, 4, and 5. Drilled to 4081' and ran DIL and Sonic Gamma Ray Logs. Changed to salt base mud. Drilling ahead at 4885' at month's end.

NOTE: We request this information be treated as confidential.

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

SIGNED C. J. [Signature] Original Signed By F. L. [Signature]
TITLE _____ DATE 6/1/69

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE CATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Sanford C.R. #4 U5949

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Section 21, T. 25 S.,
R. 18 E., S.L.B. 64.**

1.

OIL WELL GAS WELL **X** OTHER **Exploratory**

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1600 Norris Road, Bakersfield, California

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

At surface **1978' South of the North line and 735' East of the
West line, of Section 21, T. 25 S., R. 18 E.,
S.L.B. 64.**

14. PERMIT NO.

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

5152' GR

12. COUNTY OR PARISH

Grand

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)

Monthly Report of Operations

(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.)*

Month of July 1969:

Drilled 8-3/4" hole to 6719'. Ran LL3, Density, Gamma-Ray Neutron, Sonic, and Dipmeter. Set 7" casing at 4832' with 350 sacks. Pressure tested to 1500 psi for 20 minutes. Held OK. Drilled with 6-1/4" bit to 6780'. Ran LL3, Density, Gamma-Ray Neutron, Sonic, and sidewall samples. Drilled to 6875'. Ran LL3, Density, Gamma-Ray Neutron, Sonic, Dipmeter, Shell Gravimeter, Seismic check shots, and sidewall samples. Preparing to set 5" liner at mouth's end.

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

SIGNED

TITLE

DATE

Aug 10 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Mr. Young - Shell • Pinkerfield

John

Fed. 1-21

5280-5330

ret permits @ 4900 bridge plug
perf. 4760 - 4780



AO#
P/B

8/20/69

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LAND ACQUISITION AND SERIAL NO.
**ABANDONED C.R. NO. 4
U5949**

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

1. OIL WELL GAS WELL OTHER **Exploratory**

7. UNIT AGREEMENT NAME
N.A.

2. NAME OF OPERATOR
Shell Oil Company

8. FARM OR LEASE NAME
Federal No. 1

3. ADDRESS OF OPERATOR
1600 Norris Road, Bakersfield, California

9. WELL NO.
No. 1-21

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space below.)
At surface **1978' south of the north line and 735' east of the
west line of Section 21, T. 25 S., R. 18 E., S.L.B. 6M.**

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND
SECTION OR AREA
**Section 21, T. 25 S.,
R. 18 E., S.L.B. 6M.**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3152' Gr.

12. COUNTY OR PARISH 13. STATE
Grand Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

1. Perforate with four 1/2" jet holes/ft. the interval 6697-6740', and test.
2. Set bridge plug at 5467' and pressure test with 2500 psi.
3. Perforate with four 1/2" jet holes/ft. the interval 5280-5330'.
4. Run drillstem production test.

NOTE: We request this information be treated as confidential.

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

SIGNED

TITLE

DATE

AUG 22 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Conf.

Shell Oil
Federal #1-21
Sec. 21, T. 255, R. 18E
Grand

D-22-69
Bakersfield -

Testing from 4760' - 4785' - tight
Set bridge plug at 4190' and
perforated at 4026' - 4036'; 4041' - 4046';
4054' - 4069'; before they could pull
the tools the well started to flow & it
built up pressure to 1400 psi.
Opened hole and it bled-off
in less than 30 seconds.
Watching well & will test
within the next couple of days.

Jack Knight

sd

John Jung

8/25/69

Feb. 1-21 -

Shell

BP 4190

4020 - 36

4041 - 46

4054 - 69

} salt water

BP @ 3900'

Ref. 3777-3793 today

**UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Sanford C.R. #4 U5949

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 21, T. 25 S., R. 18 E., S.L.B. 6M.

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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 **Exploratory**

2. NAME OF OPERATOR

Shell Oil Company

3. ADDRESS OF OPERATOR

1600 Norris Road, Bakersfield, California

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

At surface
1978' South of the North line and 735' East of the West line, of Section 21, T. 25 S., R. 18 E., S.L.B. 6M.

14. PERMIT NO.

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

5152' GR.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

1. Set bridge plug with wireline at 4900'.
2. Run tubing to bridge plug and spot 15% MCA from 4800' to 4600' (250 gallons).
3. Perforate the interval 4760-4785' with four holes/ft. using Schlumberger 3-3/8" hyperjet hollow carrier.
4. Make drill stem production test.

Note: We request this information be treated as confidential.

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

SIGNED

[Signature]

TITLE

DATE

AUG 28 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**Sanford TX #4
U 5949**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Federal #1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Sec. 21, T23N, R18E,
S14M**

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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 **Exploratory**

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 999, Bakersfield, California

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1978' FWL and 735' FWL Sec. 21, T. 23 N., R. 18 E., S.1.E.4M.

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5152 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(Other) **Plug back, perforate and Test**

(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.)*

- Set bridge plug with wireline at 3900' (perforations 4026-4036', 4041-4046', 4054-4069'; 10.1 ppg galled salt water in hole).**
- Spot 350 gallons 15% MCA from 3800-3600'.**
- Perforate 3777-3793' with 4 JTW.**
- Make DST.**

NOTE: We request that this information be treated as confidential.

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

Original signed by

SIGNED F. A. MacDougall TITLE _____ DATE AUG 23 1963

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

Shell Oil Co.
Federal #1-21

P-2P-69

Drilled out Bridge plug at 3900'
Perforated 4179'-4183'.
put retainer at 4150' and
squeezed below 115 sacks
of cement.

Jack Knight
Director

323-2565 - Can't get a hold of Baker, Calif. - S.G.S.

John Jung: Shell - 8/29/69
2nd. 1-21

~~4150 - Cement squeezed below~~
~~4150' (not tested)~~

3000' - net cement retained
3777' - 3793' - 4026-4036
4041 - 4046 - 4054

Well pump cement 1000 sq (inside & due to choralogy)

300' cement on top of retainer
3600 - 3300'

300' cement inside 7" from surface of junkhead
(fresh water or medium water)

7" & 10 3/4" @ 847' (circulated)
2300'

↓ top @ 2900' (bond log.)

(want small amount in annular)

AOK

[Signature]

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.

5. CASE DESIGNATION AND SERIAL NO.

Sanford C.R. No. 4
U5949

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.A.

7. UNIT AGREEMENT NAME

N.A.

8. FARM OR LEASE NAME

Federal No. 1

9. WELL NO.

No. 1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 21, T. 25 S.,
R. 18 E., S.L.B. & M.

12. COUNTY OR PARISH

Grand

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1600 Norris Road, Bakersfield, California

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

At surface 1978' south of the north line and 735' east of the west line of Section 21, T. 25 S., R. 18 E., S.L.B. & M.
At top prod. interval reported below

At total depth

14. PERMIT NO. API
43-019-30033

DATE ISSUED
5-12-69

15. DATE SPUNDED 6-1-69
16. DATE T.D. REACHED 7-28-69
17. DATE COMPL. (Ready to prod.) Abandoned 8-31-69
18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 5170 RKB
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6875'
21. PLUG, BACK T.D., MD & TVD Surface
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY
ROTARY TOOLS 0-6875'
CABLE TOOLS

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

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN G.R.-C.C.L., G.R.-C.B.L., Schlumberger F.D.C., G.R.N., G.R.-S.N.P., G.R.-LAT., G.R. B.H.C., G.R.-C.S.T.
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
20"		32'	26"		
10-3/4"	40.5 lb.	847'	15"	700 Sacks	
7"	23 lb.	4832'	8-3/4"	350 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	4724'	6873'	700 Cu.Ft.				

31. PERFORATION RECORD (Interval, size and number)
6707-6717', four 3/8" jet holes/ft.
6697-6740', four 3/8" jet holes/ft.
5280-5330', four 3/8" jet holes/ft.
4760-4785', four 3/8" jet holes/ft.
4026-4036', 4041-4046', 4054-4069', 4/ft.
3777-3793', four jets/ft.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4179-4183	Squeezed with 125 sacks Class "A" Cmt. below retainer at 4150'
3777-3793, 4026-4069	Squeezed with 640 sacks Class "A" Cmt. below retainer at 3600'

33.* PRODUCTION
DATE FIRST PRODUCTION None
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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 [Signature] TITLE Division Production Manager DATE OCT 15 1969

*(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.

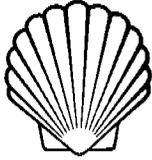
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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.)

FORMATION	TOP		BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS	
	6707	6697				MEAS. DEPTH	TRUP VERT. DEPTH
DST No. 3			6717	4032' of fresh water cushion. Initial flow was for six min. Mod. to strong blow. Final flow was for 2 hr. 28 min. Weak blow, increased to mod. and then died. Rec. 4 bbls. water, 2 bbls. slightly gas cut water and several gals. paraffin BHP's: ISIP 5142 psi (92 min.), IFF 1935 psi, FFP 5047 psi, FSIP 5069 psi (12 Hr. 20 min.)			
DST No. 4			6740	Flowed and swabbed total 356 bbls. oil. Ran BHP build-up survey. Press. decreased from original 5330 psi to 4370 psi after test.			
DST No. 5			5330	1023' of fresh water cushion. Initial flow was for 14 min. Mod. to good blow. Final flow was 6 hr. Mod. blow, trace gas to surface in 2 hr. 22 min. No oil. BHP's: ISIP 1660 psi (4 hr.), IFF 642 psi, FFP 705 psi, FSIP 917 psi (15-1/2 hr.). Rec. 2 bbls. gas cut mud and salt water.			
DST No. 6			4760	1031' of fresh water cushion. Initial flow was for 8 min. Fair blow. Final flow was for 4 hr Good blow. Dead in 87 min. BHP's: ISIP 992 psi (3 hr.), IFF 544 psi, FFP 578, FSIP 859 psi (8 hr. 6 min.). Rec. 2200 cc salt water.			

DST No. 7 4026 4069 Flowed 103 bbls. salt water, no BHP taken.
DST No. 8 3777 3793 Flowed 55 bbls. salt water, no BHP taken.
DST No. 1 and DST No. 2 failed mechanically.



SHELL OIL COMPANY

POST OFFICE BOX 999
BAKERSFIELD, CALIFORNIA 93301

MAR 5 1970

Logs - Shell Federal 1-21
Section 21, T. 25 S., R. 18 E.,
Grand County, Utah

*Red Nevada & says several hundred thousand of
oil produced & sold*

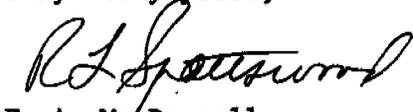
State of Utah
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed are one copy each of the logs run on the referenced well: mud log, dual induction laterolog, laterolog gamma ray-neutron, formation density log, sidewall neutron porosity log, cement bond, and perforating depth control log.

We would appreciate your keeping these logs confidential for the seven-month period permitted by the Regulations.

Very truly yours,

for 
F. A. MacDougall
Division Production Manager
San Joaquin Division

Enclosures