

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.

NM 022636

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hodges B Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Cato (San Andres)

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA
Sec. 34, T-6-S, R-30-E,
NMPM12. COUNTY OR
PARISH
Chaves13. STATE
New Mexico1a. 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 (Western Division)3. ADDRESS OF OPERATOR
P.O. Box 1509, Midland, Texas 79701

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

At surface 1980' FSL & 650' FWL, Sec. 34, T-6-S, R-30-E,
NMPM, Chaves County, New MexicoAt top prod. interval reported below
SameAt total depth
Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED
1-27-6816. DATE T.D. REACHED
2-2-6817. DATE COMPL. (Ready to prod.)
2-4-6818. PRODUCTION (DF, RKB, RT, GR, ETC.)*
4179 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
3620'21. PLUG, BACK T.D., MD & TVD
3587'22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY
ROTARY TOOLS
0-3620'

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
3455' - 3510' San Andres25. WAS DIRECTIONAL
SURVEY MADE
Yes26. TYPE ELECTRIC AND OTHER LOGS RUN
(Schlumberger) LL/MLL, SNP, BSCR27. WAS WELL CORED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	274'	12 1/4"	200 sacks	
4 1/2"	10.5#	3620'	7 7/8"	400 sacks	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2"	3337'	3337'

31. PERFORATION RECORD (Interval, size and number)

3455', 3459', 3468', 3475', 3485', 3488', 3490',
3493', 3510'.

1-1/2" JS

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3455'-3510'	3000 gallons 28% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION 2-4-68		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or Producing	
DATE OF TEST 2-4-68	HOURS TESTED 7	CHOKE SIZE 48/64"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 85	GAS—MCF. 23	WATER—BBL. 16	GAS-OIL RATIO 270
FLOW, TUBING PRESS. 50	CASING PRESSURE -	CALCULATED 24-HOUR RATE →	OIL—BBL. 291	GAS—MCF. 78	WATER—BBL. 48		OIL GRAVITY-API (CORR.) 24.5°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

35. LIST OF ATTACHMENTS

logs, deviation

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

Original Signed by

SIGNED J. D. DUREN J. D. Duren

TITLE Staff Petrophysical Engineer

FEB 3 1968

February 7, 1968

DOUGLAS, NEW MEXICO

ACCEPTED FOR RECORD (See Instructions and Spaces for Additional Data on Reverse Side)

J. W. Sutherland

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 88, 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.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
San Andres San Andres	3450' 3516'	3516' 3551'	Hydrocarbon bearing Hydrocarbon & water bearing		Base of Red Bed Yates San Andres San Andres Marker "A" Zone B-C Zone	1039' 1562' 2743' 3296' 3450' 3532'		3100' 2577' 1396' 843' 689' 607'

NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR Shell Oil Company ADDRESS P. O. Box 1509, Midland, Texas 79701
 FIELD Cato-San Andres LEASE Hodges Federal "B" WELL NO. 3
 LOCATION 1980' FSL & 660' FWL of Section 34, T-8-S, R-30-E, Chaves County, New Mexico

DEVIATION RECORD

275'	2°
764	1 1/2
1261	1 1/2
1766	1 1/4
2200	1 1/2
2610	1 1/4
2900	3/4
3248	3/4
3620	3/4

Certification of personal knowledge of Deviation Record:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information is true and complete.

James R. Mann
 Signature
ARD DRILLING COMPANY
 Company

RECEIVED

FEB 19 1958

STATE OF TEXAS
 COUNTY OF MIDLAND

S. S. GEOLOGICAL SURVEY
 MIDLAND, TEXAS

Before me, the undersigned authority, on this day personally appeared J.A. WANAMAKER, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is acting at the direction and on behalf of the operator of the well identified in this instrument and that such well was not intentionally deviated from the vertical.

[Signature]
 Signature
Division Drilling Superintendent
 Title

Sworn and Subscribed to before me, this the 24th day of February, 19 58

[Signature]
 Notary Public in and for Midland County,
 Texas.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I. Operator
Shell Oil Company (Western Division)
Address
Post Office Box 1509, Midland, Texas 79701
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☒ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)
Commingled with Hodges "A" Federal

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

UNDESIGNATED - **Cato-San Andres**
Lease Name **Hodges "B" Federal** Well No. **3** Pool Name, Including Formation **2-3411** Kind of Lease **Federal** Lease No. **MM022636**
Location
Unit Letter **L**; **1980** Feet From The **South** Line and **660** Feet From The **East**
Line of Section **34** Township **8-South** Range **30-East**, NMPM, **Chaves** County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐
Mobil Pipeline Company Address (Give address to which approved copy of this form is to be sent)
P. O. Box 500, Dallas, Texas
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐
Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks. Unit **L** Sec. **34** Twp. **8-S** Rge. **30-E** Is gas actually connected? **No** When

If this production is commingled with that from any other lease or pool, give commingling order number:

CTB 176

IV. COMPLETION DATA

Designate Type of Completion - (X)	☒ Oil Well	☐ Gas Well	☒ New Well	☐ Workover	☐ Deepen	☐ Plug Back	☐ Same Res'v.	☐ Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
1-27-68	2-4-68		3620'		3587'			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
4129' GR	San Andres		3455'		3337'			
Perforations	3455', 3459', 3468', 3475', 3485', 3488', 3490', 3493', 3510'				Depth Casing Shoe			
				3620'				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	8 5/8"		274'		200			
7 7/8"	4 1/2"		3620'		400			
	2"		3337'					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
2-4-68	2-4-68	Flow	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
7 Hours	50		48/64"
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF
101	85	16	23

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Original Signed By
K. W. LAGRONE

K.W. Lagrone

(Signature)

Division Production Superintendent

(Title)

February 7, 1968

(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
BY **Joe L. Ramez**
TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.