NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL / GAS
OPERATOR	
PRORATION OFFICE	

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**

Address: **P. O. Box 1858, Roswell, New Mexico 88201**

Reason(s) for filing *(Check proper box)*

New Well [ ] Change in Transporter of: Other *(Please explain)*

Recompletion [ ] Oil [ ] Dry Gas [X]

Change in Ownership [ ] Casinghead Gas [ ] Condensate [ ]

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease
Antelope Ridge Unit	34-1	Antelope Ridge - Devonian	State, Federal or Fee: Federal

Location

Unit Letter K ; 1980 Feet From The south Line and 1650 Feet From The west

Line of Section 34 , Township 23-S Range 34-E , NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [X]	Address *(Give address to which approved copy of this form is to be sent)*
The Permian Corporation	Box 3119, Midland, Texas
Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X]	Address *(Give address to which approved copy of this form is to be sent)*
* Shell Oil Company	P. O. Box 1858, Roswell, New Mexico 88201

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	N	27	23	34	Yes	12-9-64

* Southern Union Gas Co. takes gas from Shell Treating Plant.

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

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.

Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth

Perforations	Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

(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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method *(pitot, back pr.)*	Tubing Pressure	Casing Pressure	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 R. A. Lowery
R. A. LOWERY *(Signature)*

Acting Division Production Superintendent
(Title)

January 19, 1965
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

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 Sections I, II, III, and VI only 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.

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company	Address
Shell Oil Company	P. O. Box 1858, Roswell, New Mexico

Lease	Well No.	Unit Letter	Section	Township	Range
Antelope Ridge Unit (14-08-0001-8492)	34-1	K	34	23-S	34-E

Date Work Performed	Pool	County
Sept. 11 thru 15, 1964	Antelope Ridge	Lea

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
- ☐ Casing Test and Cement Job
- ☒ Other (Explain): Completion
- ☐ Plugging
- ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

1. Perforated with one jet shot at: 14,695', 14,707', 14, 713, 14,714', 14,715', 14,716', 14,721', 14,727', 14,728', 14,733', 14,740', 14,745', 14,755', 14,758', 14,764', 14,772', 14,774', 14,817', 14,825', 14,827', 14,829', 14,830', (22 holes)

2. Treated with 5000 gallons 15% NEA with Fe additive in first 500 gallons in 25 stages using ball sealers.

3. Swabbed well and recovered load.

4. On calculated absolute open flow potential, well flowed 25 MMCF/D.

Witnessed by	Position	Company
Frank Jones	Production Foreman	Shell Oil Company

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth

Perforated Interval(s)

Open Hole Interval	Producing Formation(s)

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

Approved by

Title

Date

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name: Original Signed By: V. L. KING — V. L. King

Position: Acting District Exploitation Engineer

Company: Shell Oil Company

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

SEP 71 7 44 AM '64

Name of Company	Address
Shell Oil Company	P. O. Box 1858, Roswell, New Mexico 88201

Lease	Well No.	Unit Letter	Section	Township	Range
(14-08-0001-8492) Antelope Ridge Unit	34-1	K	34	23-S	34-E

Date Work Performed	Pool	County
July 31 thru Aug. 23, 1964	Antelope Ridge	Lea

THIS IS A REPORT OF: *(Check appropriate block)*

- [ ] Beginning Drilling Operations
- [X] Casing Test and Cement Job
- [ ] Other *(Explain)*:
- [ ] Plugging
- [ ] Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Test for leak in 7" liner:

1. Set 7" RTTS Tool at 10,688'.
2. Perforated two 0.31" jet shots at 12,865' and 12,870'.
3. Squeezed with 600 sx Trinity Inferno and pulled RTTS Tool. Shut in with 5200 psi on drill pipe and 2100 psi on annulus.
4. Ran HOWCO D-M squeeze tool and set at 12,810'. Pressured to 7500 psi. Drilled out tool.
5. Ran RTTS tool to 12,889', pulled up and set at 12,587'.
6. Spotted 500 sx Inferno cement at packer.
7. Released RTTS Tool and pulled up to 8259'. Tested with 2400 psi for 30 minutes on annulus with no pressure loss.
8. Released and pulled RTTS Tool. Retested with 2100 psi - no pressure loss.
9. Drilled cement from 12,657' to 12,882'.
10. Reset RTTS Tool at 12,853' and pressure tested with 300 psi on annulus and 4000 psi on drill pipe.

(over)

Witnessed by	Position	Company
Frank Jones	Production Foreman	Shell Oil Company

FILL IN BELOW FOR REMEDIAL WORK REPORTS *ONLY*

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth

Perforated Interval(s)

Open Hole Interval	Producing Formation(s)

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	G O R Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION	I hereby certify that the information given above is true and complete to the best of my knowledge.
Approved by	Name *Original Signed By R. J. Doubek* R. J. Doubek
Title	Position Division Mechanical Engineer
Date	Company Shell Oil Company

11. Loaded drill pipe with 200 sx Trinity Inferno and set RTTS Tool at 12,625'. Pressured annulus to 2000 psi and pumped 200 sx cement into perfs at 2700 psi.
12. Squeezed with additional 500 sx cement. Released and pulled RTTS Tool.
13. After WOC 12 hours drilled cement from 12,663' to 12,903'.
14. Retested perforations (12,865' and 12,870') with water with RTTS Tool set at 12,830' with 5600 psi. Indicated no leaks. Released RTTS Tool and pulled up to 8300' and had indication of leaks.
15. Ran Baker Model "N" Bridge Plug and set at 12,840' capping with 2 sx cement.
16. Perforated with 1 jet shot at 11,960' and set RTTS Tool at 11,430'.
17. Loaded drill pipe with 200 sx Trinity Inferno and pumped cmt with 4000 psi. Loaded drill pipe with 400 sx Trinity Inferno and pumped at 1700 psi.
18. Pumped 500 sx Trinity Inferno and pressured to 4700 psi for 12 hours. Released pressure and pulled RTTS Tool.
19. Drilled out cement from 11,836' to 12,054' and tested perfs at 11,960' with 2100 psi.
20. Set RTTS Tool at 11,840' and pumped into perf (11,960') with 3000 psi.
21. Released tool and loaded drill pipe with water and 250 sx Trinity Inferno. Pumped into formation with 3000 psi. With 85 sx in perf pressure increased to 4000 psi, then locked at 5200 psi. Released tool and reversed out approximately 70 sx cement. Reset tool and pressured to 5000 psi.
22. Ran Baker FBRC and set at 8194'. Test indicated leak in top of liner.
23. Ran Baker Model "K" cement retainer and set at 8089'.
24. Mixed 25 sx Trinity Inferno plus 0.06% Halad "9" and 300 sx Trinity Inferno. Tested with 5000 psi for 30 minutes - no pressure drop. Drilled out Model "K" retainer and Model "N" bridge plug and went on in hole.

NUMBER OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER OIL / GAS		
PRORATION OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company	Address
Shell Oil Company	P. O. Box 1858, Roswell, New Mexico 88201

Lease	Well No.	Unit Letter	Section	Township	Range
Antelope Ridge Unit	34-1	K	34	23-S	34-E

Date Work Performed	Pool	County
Sept. 5 thru 9, 1964	Antelope Ridge (14-08-0001-8492)	Lea

THIS IS A REPORT OF: *(Check appropriate block)*

☐ Beginning Drilling Operations ☒ Casing Test and Cement Job ☐ Other *(Explain)*:

☐ Plugging ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Ran 1221' of 4 1/2" (13.5#, N-80) casing liner and hung at 14,935' with 135 sacks Trinity Inferno. Plug down at 8:27 P.M. (MST), September 6, 1964. After WOC 24 hours, ran temperature survey and found top of cement at 13,735'; top of liner at 13,714'. After WOC 48 hours, tested with 4000 psi for 30 minutes - no pressure drop.

Witnessed by	Position	Company
Frank Jones	Production Foreman	Shell Oil Company

FILL IN BELOW FOR REMEDIAL WORK REPORTS *ONLY*

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth

Perforated Interval(s)

Open Hole Interval	Producing Formation(s)

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION	I hereby certify that the information given above is true and complete to the best of my knowledge.
Approved by	Name *Original Signed By R. J. Doubek* R. J. Doubek
Title	Position Division Mechanical Engineer
Date	Company Shell Oil Company