

GRAMA RIDGE MORROW UNIT
WELL COMPLETIONS/RE-COMPLETIONS
MORROW FORMATION

WELL	SECTION	DATE
GRMU #1	3	08/19/65
GRMU #2	34	03/18/66
GRMU #3	33	12/01/66*
GRMU #4	4	06/01/65

*Re-completion

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OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

SEP 15 12 52 PM '65

MAIN

'65 SEP

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
NM-1692	

1a. TYPE OF WELL				7. Unit Agreement Name			
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____ b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____				8. Farm or Lease Name			
2. Name of Operator				9. Well No.			
Shell Oil Company, Western Division				1			
3. Address of Operator				10. Field and Pool, or Wildcat			
P. O. Box 1509, Midland, Texas 79704				Wildcat			
4. Location of Well				12. County			
UNIT LETTER <u>E</u> LOCATED <u>1980</u> FEET FROM THE <u>north</u> LINE AND <u>660</u> FEET FROM				Lea			
THE <u>west</u> LINE OF SEC. <u>3</u> TWP. <u>22S</u> RGE. <u>34E</u> NMPM							
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)	
6-1-65		8-9-65		August 19, 1965		3644' DF	
20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By	
13,257'		13,207'		-		Rotary Tools 0-13,257'	
24. Producing Interval(s), of this completion - Top, Bottom, Name							25. Was Directional Survey Made
12,827' - 12,847' Pennsylvanian							No
26. Type Electric and Other Logs Run							27. Was Well Cored
GR/S, 2ILL8, ML Proximity							Yes
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
16"	65#	370'	20"	400 SX.	-		
10-3/4"	51# & 55.5#	5643'	15"	1000 SX.	-		
7-5/8"	29.7# & 33.7#	11,820'	9-5/8"	1200 SX.	-		
29. LINER RECORD							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	30. TUBING RECORD		
5-1/2"	11,474'	13,252'	260		SIZE	DEPTH SET	PACKER SET
					2-7/8"	12,700'	12,700'
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
12,827', 12,829', 12,831', 12,837', 12,839', 12,843', 12,845' 1/ft. 12,847'				DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED _____ _____ _____ _____			
33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
August 19, 1965		Flowing				Shut in	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
8-19-65	24	21/64"		-	26.5 MMCF	-	-
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
4090	-			26.5 MMCF			
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
Vented						A. L. Ellerd	
35. List of Attachments							
Drill Stem Tests							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED <u>C. R. Coffey</u> C. R. Coffey				Acting District TITLE <u>Exploitation Engineer</u>		DATE <u>September 10, 1965</u>	

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 located by, or may be obtained from, the local Federal and/or State office. See instructions on items 23 and 24, and 25, 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 present test 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 in this form, see item 38.

Item 4: If there are not applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal Requirements. Consult local State or Federal office for special instructions.

Item 18: Indicate which elevations are used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Item 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), indicate in item 22, and in item 24 show the producing interval, of intervals, top (s) and bottom (s) and name (s) (if any) for only the interval reported in item 38. 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: "Scale Combs": 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:		38. DATE REACHED		39. DATE COMPLETION		40. DATE REACHED		41. DATE COMPLETION		42. DATE REACHED		43. DATE COMPLETION		44. DATE REACHED		45. DATE COMPLETION		46. DATE REACHED		47. DATE COMPLETION		48. DATE REACHED		49. DATE COMPLETION		50. DATE REACHED		51. DATE COMPLETION		52. DATE REACHED		53. DATE COMPLETION		54. DATE REACHED		55. DATE COMPLETION		56. DATE REACHED		57. DATE COMPLETION		58. DATE REACHED		59. DATE COMPLETION		60. DATE REACHED		61. DATE COMPLETION		62. DATE REACHED		63. DATE COMPLETION		64. DATE REACHED		65. DATE COMPLETION		66. DATE REACHED		67. DATE COMPLETION		68. DATE REACHED		69. DATE COMPLETION		70. DATE REACHED		71. DATE COMPLETION		72. DATE REACHED		73. DATE COMPLETION		74. DATE REACHED		75. DATE COMPLETION		76. DATE REACHED		77. DATE COMPLETION		78. DATE REACHED		79. DATE COMPLETION		80. DATE REACHED		81. DATE COMPLETION		82. DATE REACHED		83. DATE COMPLETION		84. DATE REACHED		85. DATE COMPLETION		86. DATE REACHED		87. 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OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION BOARD
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

MAR 25 3 52 PM '66

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
E0859

a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ 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

NIT LETTER L LOCATED 1980 FEET FROM THE South LINE AND 660 FEET FROM

HE Westline of Sec. 34 Twp 21S Rge 34E NMPM

5. Date Spudded 10-27-65 16. Date T.D. Reached 2-23-66 17. Date Compl. (Ready to Prod.) 3-18-66 18. Elevations (DF, RKB, RT, GR, etc.) 3651' DF 19. Elev. Casinghead -

20. Total Depth 14,603' 21. Plug Back T.D. 13,194' 22. If Multiple Compl., How Many - 23. Intervals Drilled By Rotary Tools 0-14,603' Cable Tools -

4. Producing Interval(s), of this completion - Top, Bottom, Name
13,921'-13,056' Morrow-Pennsylvanian

25. Was Directional Survey Made
Yes

6. Type Electric and Other Logs Run

GR/N, BHC/Sonic-GR, Proximity-Micro Log, Micro Log, DI-L

27. Was Well Cored
No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94#	362'	26"	500	-
13 3/8"	72#, 68#, 61#	5726'	17 1/2"	900	-
9 5/8"	53.5#	11897'	12 1/4"	1000	-

9. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
7"	11571'	14082'	860	2111'

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 1/2"	12,788'	12,788'

1. Perforation Record (Interval, size and number)

12,921', 12,922', 12,924', 12,926', 12,928', 12,930', 12,932', 12,934', 13,020', 13,022', 13,051', 13,056'

1 JSPF 2"

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

3. PRODUCTION

ate First Production <u>3-18-66</u>	Production Method (Flowing, gas lift, pumping) Size and type pump <u>Flowing</u>	Well Status (Prod. or Shut-in) <u>Producing</u>
ate of Test <u>3-21-66</u>	Hours Tested <u>24</u>	Choke Size <u>12/64"</u>
low Tubing Press. <u>5890-5609</u>	Casing Pressure <u>-</u>	Calculated 24-Hour Rate <u>-</u>
	Prod'n. For Test Period <u>60</u>	Bbl. Cond. Gas - MCF <u>31,753</u>
		Water - Bbl. <u>-</u>
		GLR <u>142 MCF/bbl</u>
		Gravity - API (Corr.) <u>48.8°</u>

4. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

Test Witnessed By

A. L. Ellerd

5. List of Attachments

Drill Stem Tests

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED J. D. Duren J. D. Duren

TITLE Staff Exploitation Engineer DATE March 23, 1966

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt 1706' (+1945')	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates 3950' (-299')	T. Miss Ls. 13828' (-10,177')	T. Cliff House _____	T. Leadville _____
T. 7 Rivers 4423' (-772')	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian 14,444' (-10,793')	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorietta _____	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs 8240' (-4589')	T. Wingate _____	T. _____
T. Wolfcamp 11,277' (-7626')	T. Delaware Mtn. 5567' (-1936')	T. _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. Des Moines 11,680' (-8029')	T. Penn. "A" _____	T. _____
Atoka 11,963' (-8312')	Woodford 14,288' (-10,637')		
Morrow Clastics 12,750' (-9099')			

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1700	1700	Red Beds				
1700	5560	3860	Anhydrite, Salt, & Limestone				
5560	8970	3410	Limestone & Sandstone				
8970	11890	2920	Limestone, Sandstone, Chert & Shale				
11890	12520	630	Limestone & Shale				
12520	12720	200	Limestone, Shale, Sandstone & Chert				
12720	12840	120	Limestone & Shale				
12840	13100	260	Sandstone, Siltstone, & Shale				
13100	14450	1350	Shale & Limestone				
14450	14600	150	Dolomite				

NOV 22 3 29 PM '22

NOV 22 11 01 AM '22

Attachment for NMOCC Form C-105

Dated March 23, 1966

HOBBS OFFICE O. G. C.
Shell Oil Company

MAR 25 8 38 PM '66
M. CRP Series 1000
Section 34, T-21-S, R-34-E,
NMPM Survey, Lea County, New Mexico.

APR 4 AM 8:06

DST #1: 12,680'-12,937' (257' Morrow). Nitrogen valve at 10,487'. 2450' Nitrogen blanket pressured to 1535 psi surface pressure. Tool open 247 minutes, including 17 minutes pre-flow, thru 5/8" BC, 1" TC, 4 1/2" DP w/strong blow. Nitrogen to surface 4 minutes. Mud to surface 14 minutes. GTS 15 minutes. Flowed to pits 20 minutes. Turned thru separator and flowed at following rates: (Variable choke not operating properly).

<u>Flow Time</u>	<u>Flowing Surface Pressure</u>	<u>Rate</u>
15 minutes	3000 psi	-
30 minutes	5500 psi	-
45 minutes	5100 psi	-
55 minutes	5000 psi	-
75 minutes	4700 psi	11 MMCFPD
90 minutes	4500 psi	13 MMCFPD
110 minutes	4200 psi	-
125 minutes	4000 psi	15 MMCFPD
130 minutes	4000 psi	-

Total liquid recovered while flowing 3.3 BC + 3 bbls BS&W.

Gas Gr. 0.592 w/no CO₂ or H₂S. Condensate Gr. 51.8° API.

Total pipe recovery 50' (0.51 bbls.) condensate. No water recovery.

Pit mud filtrate titration 1500 ppm Cl⁻. 100 minutes ISIBHP 7682 psi.

FBHP 5648-6784 psi. 208 minutes FSIBHP 7682 psi. HMP 8460-8341 psi.

BHT 177°F. Positive Test. (Cook)

DST #2: 14,475'-14,603' (128' Silurian Dolomite). 1000' Nitrogen blanket pressured to 1475 psi. Tool open 150 minutes, 5 minutes preflow, thru 5/8" BC, 1" TC, 3 1/2" & 4 1/2" DP with fair to medium blow increased to strong in 10 minutes & decreased to no blow in 45 minutes. NGTS. Recovered 670' (10 bbls.) slightly gas cut mud + 5000' (45 bbls.) salty sulfur water. 150 minutes ISIBHP 6162 psi. FBHP 2319-2270 psi. 150 minutes FSIBHP 6162 psi. HMP 7198-7198 psi. Positive Test. (Cook)

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
 Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

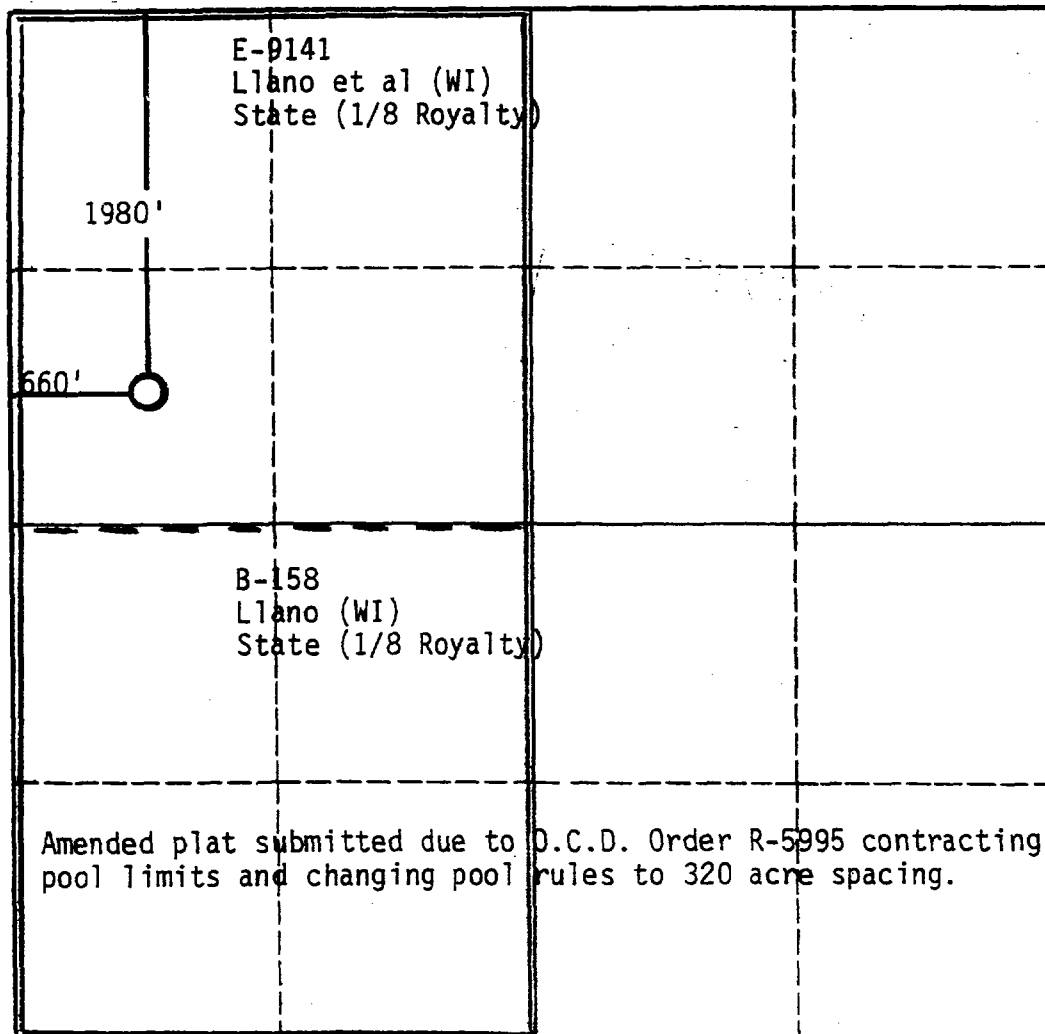
SECTION A

Operator Llano, Inc.		Lease Grama Ridge Morrow Unit		Well No. 1
Unit Letter E	Section 3	Township 22 South	Range 34 East	County Lea
Actual Footage Location of Well: 660 feet from the West line and 1980 feet from the North line				
Ground Level Elev. 3630	Producing Formation Morrow	Pool Grama Ridge Morrow (Gas)	Dedicated Acreage: 320 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Unit Agreement
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name Al Klaar
 Position Mgr. Pet. & N.G. Engr.
 Company Llano, Inc.
 Date May 2, 1979

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes 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.

Date Surveyed 5-29-65
 Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. _____

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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OPERATOR		

NEW MEXICO **RUBEN GONZALEZ** COMMISSION

Dec 7 1 21 PM '66

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State ☒ Fee ☐
5. State Oil & Gas Lease No. E-7574
7. Unit Agreement Name South Wilson Deep Unit
8. Farm or Lease Name South Wilson Deep Unit
9. Well No. 701 2
10. Field and Pool, or Wildcat Grama Ridge (Morrow Gas)
12. County Lea

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 - " (FORM C-101) FOR SUCH PROPOSALS.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER-
2. Name of Operator Sinclair Oil & Gas Company
3. Address of Operator Shell Oil Company (Western Division) P. O. Box 1509, Midland, Tex. 79701
4. Location of Well UNIT LETTER J, 1980 FEET FROM THE south LINE AND 1980 FEET FROM THE east LINE, SECTION 33 TOWNSHIP 21S RANGE 34E NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3656' DF

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: **SUBSEQUENT REPORT OF:**

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☒	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	OTHER ☐

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

October 10, 1966 thru December 1, 1966.
Recompleted from Bone Spring to Morrow Gas.

1. Pulled tubing & packer.
2. Squeezed Bone Spring perforations 10,675' - 10,711' w/150 sx. Trinity Inferno Slo-set cement at 5500 psi.
3. Pressured casing to 5000 psi, pressure dropped to 500 psi in 15 mins.
4. Resqueezed perforations w/75 sx. Trinity Inferno Slo-set cement at 6000 psi. Top of cement 10,428'.
5. Drilled firm cement 10,428' - 10,712'.
6. Pressured casing to 5000 psi for 30 minutes, no pressure drop.
7. Cleaned out to 13,350' (PBSD).

8. I hereby certify that the information above is true and complete to the best of my knowledge and belief.
Shell Oil Company as Sub-operator and agent
SIGNED J. D. Duren J. D. Duren TITLE Staff Petrophysical Engineer DATE December 5, 1966

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

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HOBBBS OFFICE O. C. C.
NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
JUN 30 11 27 AM '66

Form C-105
Revised 1-1-65
Indicate Type of Lease
State
Fee
State Oil & Gas Lease No.
E-7574

a. TYPE OF WELL
b. TYPE OF COMPLETION
Name of Operator
Address of Operator
Location of Well

Unit Agreement Name
Farm or Lease Name
Well No.
Field and Pool, or Wildcat

LOCATED 1980 FEET FROM THE south LINE AND 1980 FEET FROM
LINE OR SEC. 33 TWP. 21S RGE. 34E NMPM
Date Spudded 3-5-66
Date T.D. Reached 5-28-66
Date Compl. (Ready to Prod.) June 27, 1966
Elevations (DF, RKB, RT, GR, etc.) 3656' DF
Elev. Casinghead -

County
Lea
Was Directional Survey Made
yes

Total Depth 13,403'
Plug Back T.D. 13,350'
If Multiple Compl., How Many 2*
Intervals Drilled By Rotary Tools 0 - 13,403'
Cable Tools -
Producing Interval(s), of this completion - Top, Bottom, Name
10,675' - 10,711' Bone Spring
13,173' - 13,252' Morrow
Type Electric and Other Logs Run
DIL, BHC-Sonic, Proximity-MicroLog
Was Well Cored
no

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	375'	17 1/2"	400 sx.	-
9 5/8"	36# & 40#	5706'	12 1/4"	1300 sx.	-
7"	29#	11900'	8 3/4"	650 sx.	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4 1/2"	11,593'	13,396'	225	1803'

TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 1/2"	10,600'	10,600'

Perforation Record (Interval, size and number)
13,143' - 13,148' 3/8" 1/ft.
13,173' - 13,252' 1 11/16" 1/ft.
10,675' - 10,711' 3/8" 1/ft.
ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL
10,675'-10,711' 500 gallons 15% NEA
13,143'-13,148' Squeezed w/42 sx. at 6500 psi.

PRODUCTION
First Production
June 27, 1966
Production Method (Flowing, gas lift, pumping - Size and type pump)
Flowing
Well Status (Prod. or Shut-in)
Producing
Date of Test
June 29, 1966
Hours Tested
18
Choke Size
7/64"
Prod'n. For Test Period
Oil - Bbl. 214
Gas - MCF 139
Water - Bbl. -
Gas - Oil Ratio 650
Flow Tubing Press.
1800
Casing Pressure
pkc.
Calculated 24-Hour Rate
Oil - Bbl. 285
Gas - MCF 185
Water - Bbl. -
Oil Gravity - API (Corr.) 42.8 deg.
Disposition of Gas (Sold, used for fuel, vented, etc.)
vented
Test Witnessed By
W. D. Moore

List of Attachments
none
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.
Shell Oil Company as Sub-Operator
and Agent
SIGNED J. D. Duren J. D. Duren TITLE Staff Exploitation Engineer DATE June 30, 1966

*Application for Dual applied for.

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 12,056'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Galiup	T. Ignacio Qtzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs 8325'	T. Wingate	T.
T. Wolfcamp 11,314'	T. Delaware Mountain 5510'	T. Chinle	T.
T. Penn.	T. Des Moines 11,741'	T. Permian	T.
T. Cisco (Bough C)	T. Morrow Clastics 12,912'	T. Penn. "A"	T.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation
0	1700	1700	Red Beds
1700	5630	3930	Anhydrite, Salt, Limestone
5630	9908	4278	Limestone & Sand
9908	10700	792	Limestone
10700	11100	400	Limestone, Dolomite, Chert & Shale
11100	11800	700	Limestone, Sand, Chert & Shale
11800	12100	300	Limestone, Chert & Shale
12100	12700	600	Limestone & Shale
12700	12960	260	Limestone, Shale & Sand
12960	13403	443	Shale & Sand

DST #1: 12,797' - 13,060' (263' Morrow). Tool open 305 minutes (including 5 minutes preflow) thru 5/8" BC, 1" & 3/8" TC, 3 1/2" DP. GTS 20 minutes. Adjustable choke cut out and choke sizes undetermined. Flowed gas as follows:

Time	Rate MMCF	FTP (psi)
1 hour	5.62	1600
1 hour	5.901	1325
1 hour 15 mins	6.001	1100
45 minutes	6.098	1065

Recovery in tank 10 BC + 10 BW and mud. Gas Gravity 0.628. Condensate Gravity 50.3 deg. API.
Recovered 150' mud and condensate above Nitrogen valve + 110' gas cut condensate above shut in tool. 90 minutes ISIBHP 7880 psi. FBHP 2648 - 2590 psi. 180 minutes FSIBHP 7042 psi. HMP 8567 - 8507 psi. BHT 172 deg.

CONCLUSIVE TEST. (Cook)

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

FORM C-128
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

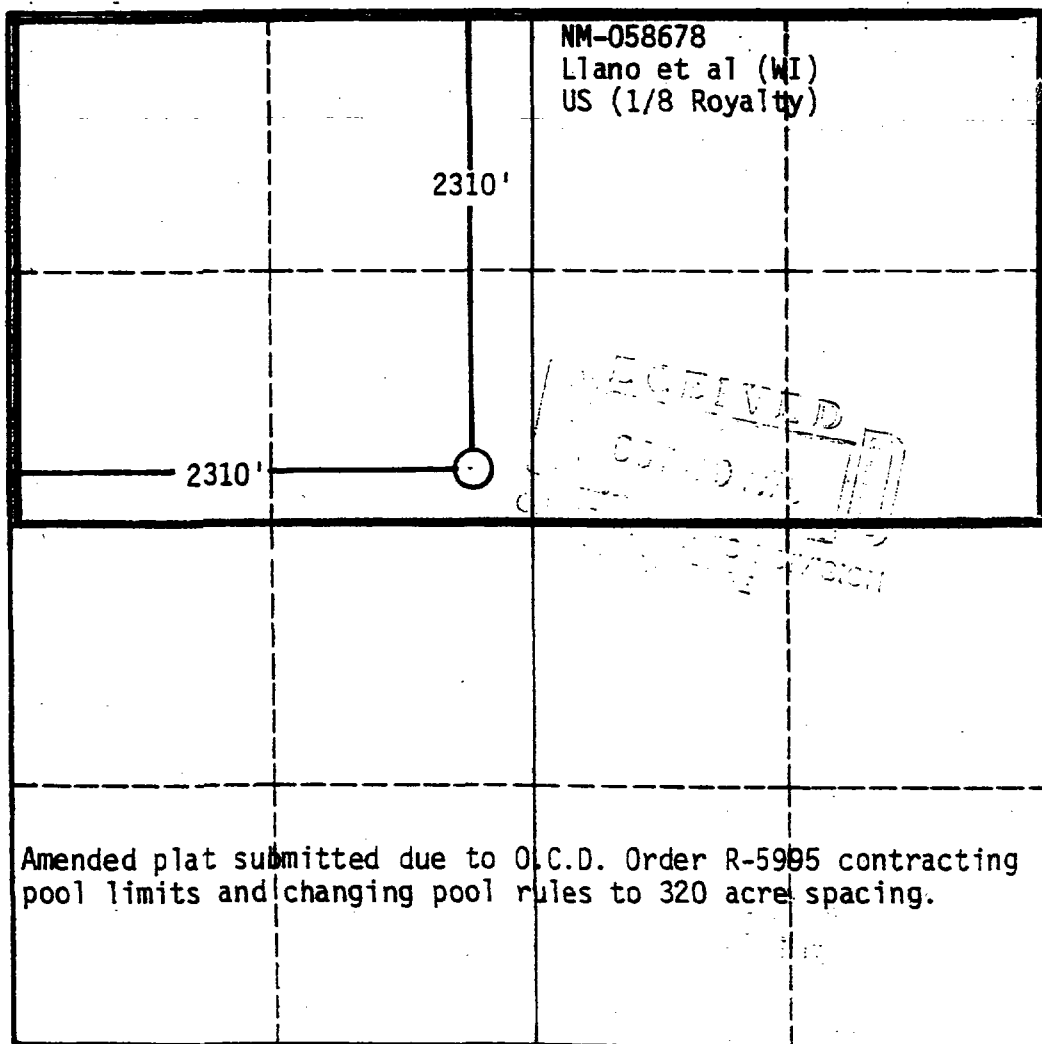
SECTION A

Operator Llano, Inc.		Lease Gramma Ridge Morrow Unit		Well No. 4
Unit Letter F	Section 4	Township 22 South	Range 34 East	County Lea
Actual Footage Location of Well: 2310 feet from the North line and 2310 feet from the West line				
Ground Level Elev. 3630	Producing Formation Morrow		Pool Gramma Ridge Morrow (Gas)	Dedicated Acreage: 320 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1955 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Unit Agreement
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Al Klaar

Name	Al Klaar
Position	Mgr. Pet. & N.G. Engr.
Company	Llano, Inc.
Date	May 2, 1979

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes 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.

Date Surveyed	11-23-64
Registered Professional Engineer and/or Land Surveyor	T. E. Chapman, Jr.
Certificate No.	

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

Form approved
Budget Bureau No. 1-2555

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		2. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVER. ☐ Other ☐	
3. NAME OF OPERATOR Shell Oil Company			
4. ADDRESS OF OPERATOR P. O. Box 1852, Roswell, New Mexico 88201			
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 2310' ENL & 2310' ENL (SE/4 NW/4) Section 4, T-22-S, At top prod. 2310' ENL & 2310' ENL (SE/4 NW/4) Section 4, T-22-S, At total depth			
15. DATE SPUNDED		16. DATE T.D. REACHED	
17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (OF, REB, ET)	
19. TOTAL DEPTH, MD & TVD		20. PLUG BACK T.D., MD & TVD	
21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME, (MD AND TVD)		22. PERMIT NO.	
23. TYPE ELECTRIC AND OTHER LOGS RUN		24. DATE ISSUED	
25. GR/N, 21-113, Proximity M.		26. PERMIT NO.	
27. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	CEMENTING RECORD
16"	65#	330'	400 SX
10 3/4"	51# & 55#	3711'	1000 SX
7 5/8"	29.7# & 33.7#	11,393'	500 SX
28. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*
5 1/2"	11,639'	14,199'	305
3 1/2"	12,859'	14,320'	100
29. TUBING RECORD			
SIZE	DEPTH (MD)	SIZE	DEPTH (MD)
5 1/2"	11,639'	5 1/2"	11,639'
3 1/2"	12,859'	3 1/2"	12,859'
30. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE			
DEPTH INTERVAL (MD)	AMOUNT	DATE	REMARKS
14,424'—15,570'	4000 gal. 10% HCl	10/1/65	10% HCl
12,886'—13,111'	4500 gal. 10% HCl	10/1/65	10% HCl
12,886'—13,111'	8000 gal. 10% HCl	10/1/65	10% HCl
31. PRODUCTION			
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS	REMARKS
6-1-65	Flowing	Producing	Producing
DATE OF TEST	HOURS TESTED	PROD'N. FOR TEST PERIOD	OIL—BBL. GAS—MCF. WATER—BBL.
6-1-65	24	24	6.9 BBL. 100 MCF. 100 BBL.
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL.
6-1-65	6.9 BBL. 100 MCF. 100 BBL.	6.9 BBL. 100 MCF. 100 BBL.	6.9 BBL. 100 MCF. 100 BBL.
32. COMPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
Gas Liquid Ratio 122,840			
Gas Gravity 0.595			
33. LIST OF ATTACHMENTS			
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
Original Signed By			
SIGNED	C. R. Coffey	TITLE	Acting District Exploitation Engineer
DATE		June 4, 1965	

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