

Lea "A" #14
Eddy County, New Mexico

PERFORATION RECORD

RECEIVED
APR 25 1966
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Perforation Job #1 3842'-3903'

Perforated 5-1/2" OD casing with 1 jet shot per foot at the following depths: 3842', 3847', 3858', 3862', 3865', 3867.5', 3872', 3876', 3880', 3898', 3900.5', 3903', a total of 12' & 12 shots.

Perforation Job #2 3313'-3618'

Perforated 5-1/2" OD casing with 1 jet shot per foot at the following depths: 3313', 3336.5', 3373', 3376', 3409', 3411', 3413', 3417.5', 3485', 3487', 3506', 3508', 3556', 3588', 3593', 3605', 3607', 3613', 3615', 3618', a total of 23' & 23 shots.

RECEIVED

APR 28 1966

U. S. G.
ARTESIA, NEW MEXICO

RECEIVED
APR 1 1968
U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C. 20250

TO: DIRECTOR, AID TO AGRICULTURE
FROM: DIRECTOR, AID TO AGRICULTURE
SUBJECT: AID TO AGRICULTURE

1. The purpose of this document is to provide information regarding the AID to Agriculture program. The program is designed to assist in the development of the agricultural sector in the United States.

2. The program is administered by the Department of Agriculture.

3. The program is designed to assist in the development of the agricultural sector in the United States.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

Form approved.
Budget Bureau No. 42-R355.5.

(See other instructions on reverse side)

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 Skelly Oil Company							
3. ADDRESS OF OPERATOR Box 730 - Hobbs, New Mexico							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 560' FNL & 1980' FNL Sec. 23 - 17S - 31E At top prod. interval reported below At total depth							
15. DATE SPUNDED 3-19-66				16. DATE T.D. REACHED 4-9-66		17. DATE COMPL. (Ready to prod.) April 15, 1966	
20. TOTAL DEPTH, MD & TVD 3935'				21. PLUG, BACK T.D., MD & TVD 3660'		22. IF MULTIPLE COMPL., HOW MANY* - -	
23. INTERVALS DRILLED BY 0-3935'				24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3313'-3618' - Grayburg 3842'-3903' - San Andres		25. WAS DIRECTIONAL SURVEY MADE NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger- Laterolog, Microlaterolog, Formation Density Log, Sonic Log-Gamma Ray, Neutron Porosity Log				27. WAS WELL CORED YES			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
8-5/8"	24#	626'	11"	350		-	
5-1/2"	14#	3935'	7-7/8"	250		-	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD		
None					SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	3559'	-
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
SEE ATTACHED SHEET				DEPTH INTERVAL (MD)			
				3842'-3903'			
				3313'-3618'			
				3313'-3618'			
				AMOUNT AND KIND OF MATERIAL USED			
				2500 gals HDA acid			
				2000 gals HDA acid			
				30000 gals water & 30000 lbs			
				20-40 sand			
33. PRODUCTION							
DATE FIRST PRODUCTION April 15, 1966		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump- 2" x 1-1/2" x 12' (Fluid Pack)				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 4-20-66	HOURS TESTED 24	CHOKE SIZE -	PROD'N. FOR TEST PERIOD →	OIL—BBL. 124	GAS—MCF. TSTM	WATER—BBL. 0	GAS-OIL RATIO TSTM
FLOW. TUBING PRESS. -	CASING PRESSURE -	CALCULATED 24-HOUR RATE →	OIL—BBL. 124	GAS—MCF. TSTM	WATER—BBL. 0	OIL GRAVITY-API (CORR.) 36.4°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY Frank King	
35. LIST OF ATTACHMENTS Perforation Record and Cores 1-13							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED (Signature) H. L. Aas				TITLE District Superintendent		DATE April 22, 1966	

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEASURED DEPTH	TRUE VERT. DEPTH
Core #1 - 3180'-3239'	Recovered 59'	Core #12- 3815'-3871'	Recovered 56'	Anhydrite	495'	
(See attached sheet)		(See attached sheet)		Yates	1895'	
Core #2 - 3239'-3297'	Recovered 58'	Core #13- 3871'-3910'	Recovered 39'	Grayburg	3225'	
(See attached sheet)		(See attached sheet)		Premier	3502'	
Core #3 - 3297'-3356'	Recovered 59'			San Andres	3595'	
(See attached sheet)				Lovington Sand	3705'	
Core #4 - 3356'-3403'	Recovered 47'					
(See attached sheet)						
Core #5 - 3403'-3462'	Recovered 59'					
(See attached sheet)						
Core #6 - 3462'-3521'	Recovered 59'					
(See attached sheet)						
Core #7 - 3521'-3580'	Recovered 56-1/2'					
(See attached sheet)						
Core #8 - 3580'-3639'	Recovered 59'					
(See attached sheet)						
Core #9 - 3639'-3697'	Recovered 58'					
(See attached sheet)						
Core #10- 3697'-3756'	Recovered 59'					
(See attached sheet)						
Core #11- 3756'-3815'	Recovered 59'					
(See attached sheet)						

March 28, 1966

LEA "A" NO. 14

CORE NO. 1

CUT: 59'

RECOVERED: 59'

LRH-JTC

3180-81'
(1.0')

Red Fine Grain Sand

No Show

81-85
(4.0')

White Anhydrite, Scattered Red Shale Laminations

85-86
(1.0')

Gray Dolomite

No Show

86-89
(3.0)

Gray Anhydritic Dolomite

No Show

89-90
(1.0)

Brown Shale

90-97
(7.0')

Gray Anhydritic Dolomite

No Show

97-3212
(15.0')

Tan Fine Grain Sand

Fair Show

12-16
(4.0')

Tan Fine Grain Sand

No Show

16-24
(8.0)

Red and Gray Shale, Scattered Anhydrite Nodules

24-30
(6.0)

White Anhydrite with scattered Red Shale Partings

30-39
(9.0)

Gray dense Dolomite

Very Slight Show
38-39

59.0'

JTC/bh

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ARTESIA, NEW MEXICO

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LEA "A" NO. 14

CORE NO. 2

CUT: 58'

RECOVERED: 58'

ELEVATION 3893 DF

MARCH 29, 1966

³²³⁹
~~3139~~-84
(45.0')

Brown Dense Anhydritic Dolomite

Very Slight Show:
46-47, 54-55,
66-69, and 75-82

84-86
(2.0')

White Anhydrite

No Show

86-87
(1.0')

Red Dense Anhydritic Dolomite

No Show

87-93
(6.0')

Red Fine Grain Shaley Sand

No Show

93-97
(4.0')

Sandy Dense Anhydritic Dolomite

No Show

58.0'

LRH/bh

LEA "A" NO. 14

CORE NO. 3, 3-29-66

3297 - 3356

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ARTESIA, NEW MEXICO

Cut: 59'

Recovered: 59'

Elevation 3893 DF

3297-99
(2.0)

Brown Styolitic Dolomite

No Show

99-3304.5
(5.5)

Brown Styolitic Anhydritic Dolomite

No Show

04.5-09.0
(4.5')

Anhydrite

09.0-12
(3.0')

Fine Grain Gray Sand

Bleeding Oil

12-16
(4.0')

Anhydritic Dolomite

No Show

16-17
(1.0)

Light Brown Sand

Bleeding Oil

17-24
(7.0)

Light Brown Sand

No Show

24-27
(3.0)

Light Brown Dolomitic Sand

No Show

27-52

Styolitic Dolomite with Shale Partings

Oil Show @
3333.5-36.0
3339-41
3344-45.5
3347-48.5

52-56
(4.0)

Anhydritic Dolomite

No Show

59'

JTC/bh

LEA "A" NO. 14

CORE NO. 4

3356 - 3403

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

CUT: 47'

RECOVERED 47'

MARCH 30, 1966

3356-66
(10.0')

Gray Dense Anhydritic Dolomite

No Show

3366-70
(4.0')

Gray Dense Shaley Dolomite

No Show

3370-76
(6'.0')

Tan Fine Grain Sand

Show Oil
74-76 "Heavy" Oil

3376-3400
(24.0')

Gray Dense Anhydritic Dolomite

Slight Show Oil @
3386.5-87.5
3389.5-90.5

3400-03
(3')

Gray Dense Shaley Dolomite

No Show

LRH/bh

LEA "A" NO. 14

CORE NO. 5
3403-3462

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ARTESIA, NEW MEXICO

Cut: 59'

Recovered: 59'

March 31, 1966

3403-05 (2.0)	Gray Fine Grain Sand	Bleeding Very Heavy Oil
05-11 (6.0)	Tan Fine Grain Sand	Good Show
11-23 (12.0)	Tan-Gray Dense Dolomite	Bleeding Oil 3412-13 3416-20
23-25 (2.0)	Red Fine Grain Shaley Sand	
25-39 (14.0)	Gray Dense Dolomite	Bleeding Oil 3438-39
39-41 (2.0)	Tan Fine Grain Sand	Good Show
41-48 (7.0)	Gray-Red Dense Dolomite	No Show
48-62 (14.0)	Gray Dense Dolomite	No Show

JTC/bh

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ARTESIA, NEW MEXICO

CORE NO. 6 - 3462-3521' Cut 59' and recovered 59'.
Geological description of core as follows:

3462-3463.5'	- 1'6"	- Red shaley Dolomite, no show.
3463.5-3465'	- 1'6"	- Red dolomitic Shale, no show.
3465-3478'	- 13'0"	- Gray styolitic anhydritic Dolomite, no show.
3478-3480'	- 2'-0"	- Gray sandy Dolomite, fair show oil.
3480-3482'	- 2'0"	- Tan fine grain Sand, good stain.
3482-3483'	- 1'0"	- Gray sandy Dolomite, bleeding oil.
3483-3493'	- 10'0"	- Gray dense styolitic anhydritic Dolomite, no show.
3493-3496'	- 3'0"	- Gray anhydritic Dolomite, bleeding heavy oil.
3496-3500'	- 4'0"	- Gray dense anhydritic Dolomite, no show.
3500-3505'	- 5'0"	- Tan fine grain sand, good stain.
3505-3518'	- 13'0"	- Gray dense anhydritic Dolomite, no show.
3518-3521'	- 3'0"	- Tan dolomitic Sand, bleeding oil.
	<u>59'0"</u>	

LEA "A" NO. 14

CORE NO. 7

CUT: 59'

RECOVERED: 56 1/2'

(3521-3580)

April 3, 1966

3521-43	(22.0)	Styolitic Gray Dolomite with Shale Partings	Bleeding Oil 3525-25.6 Show @ 3535-37.5 Show @ 3538.5-39.5
43-47.5	(4.5')	Styolitic Pink Dolomite with Shale Partings	No Show
47.5-49	(1.5)	Styolitic Gray Dolomite	No Show
49-54	(5.0)	Gray Fine Grain Sand	Show of Oil
54-55	(1.0)	Styolitic Gray Shaley Dolomite	No Show
55-57.5	(2.5)	Gray Fine Grain Sand	Show of Oil
57.5-59.7	(2.2)	Styolitic Gray Dolomite	Bleeding @ 3558.2-59
59.7-60.7	(1.0)	Gray Shaley Dolomite	
60.7-64	(3.3)	Styolitic Shaley Dolomite	No Show
64-65	(1.0)	Red Fine Grain Shaley Sand	No Show
65-66	(1.0)	Gray Dolomite	No Show
66-72	(6.0)	Red Fine Grain Sand	Good Show
72-74.5	(2.5)	Styolitic Gray Dolomite with Shaley Partings	No Show
74.5-77.5	(3.0)	Red Fine Grain Sand	No Show

56 1/2'

TOTAL

8-10-66
A.C. 1-1-66
U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

LEA "A" NO. 14

CORE NO. 8

CUT:59'	RECOVERED:59'	(3580-3639)	April 4, 1966
3580-81 (1.0')	Dark Gray Sandy Dolomite		No Show
3581-83 (2.0')	Light Tan Fine Grain Sand		Good Odor
3583-84 (1.0')	Pink, Shaley, Styolitic, Dolomite		No Show
3584-84.5 (0.5')	Red Dolomite		No Show
3584.5-85.5 (1.0')	Red Shaley Sand		No Show
3585.5-86.5 (1.0')	Gray Fine Grain Sand		No Show
3586.5-88 (1.5')	Gray Fine Grain Sand		Bleeding Oil
3588-91 (3.0')	Red and Gray Shaley Sand		No Show
3591-3604 (13.0')	Gray Slightly Fractured Styolitic Dolomite with Pin Point Porosity		Bleeding Oil 3598-3603.5
3604-07 (3.0')	Gray, Anhydritic, Slightly Fractured Dolomite		Bleeding Oil 3605.5-06.0
3607-16.5' (9.5')	Gray, Styolitic, Slightly Fractured, Dolomite Pin Point Porosity, Slightly Vuggy		Bleeding Oil 3611-16.5
3616.5-3619 (2.5')	Gray Anhydritic Dolomite		No Show
3619-27 (8.0')	Slightly Fractured, Styolitic Dolomite with Scattered Pin Point Porosity		Show Oil
3627-30 (3.0')	Dense Styolitic Slightly Fractured Dolomite		No Show
3630-32 (2.0')	Styolitic Fractured Dolomite		Show Oil
3632-39 (7.0')	Gray Dense Dolomite		No Show
<u>59'</u>			

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 ARTESIA, NEW MEXICO

LEA "A" NO. 14

CORE NO. 9

CUT: 58'

RECOVERED: 58'

3639-97

April 5, 1966

3639-55 (16.0)	Gray Anhydritic Styolitic Dolomite	No Show
55-56 (1.0)	Multi-Color Anhydritic Dolomite	No Show
56-66 (10.0)	Gray Anhydritic Styolitic Dolomite	No Show
66-67 (1.0)	Gray Shaley Dolomite	No Show
67-73 (6.0)	Gray Anhydritic Dolomite	No Show
73-74 (1.0)	Gray Shaley Dolomite	No Show
74-75 (1.0)	Clear Anhydrite	
75-81 (6.0)	Gray Anhydritic Styolitic Dolomite	No Show
81-85.5 (4.5)	Gray-Green Anhydritic Shaley Dolomite	
85.5-87.0 (1.5)	Gray Anhydritic Dolomite-Slightly fractured	Poor Show
87.0-91 (4.0)	Gray Anhydritic Dolomite	No Show
91-92 (1.0)	Gray Anhydritic Dolomite	Fractured Slight Show
92-94 (2.0)	Gray Shaley Dolomite	No Show
94-96 (2.0)	Gray Anhydritic Dolomite-Slightly Fractured	Slight Show
96-97 <u>(1.0)</u>	Gray Shaley Dolomite	No Show

58'

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 ARTESIA, NEW MEXICO

LEA "A" NO. 14

CORE NO. 10

CUT: 59'	RECOVERED: 59'	3697-3756	April 6, 1966
3697-99 (2.0')	Light Brown Fractured Dolomite		No Show
3699-3702 (3.0')	Gray Shaley Dolomite		No Show
3702-03.5 (1.5')	Gray Sandy Dolomite		No Show
3703-07 (3.5')	Gray Shaley Sand		No Show
3707-3733 (26.0')	Styolitic Gray Dolomite with Scattered Shale Partings		Very Slight Show (3712-13)
3733-36 (3.0')	Shaley Sand - Multi-Colored		No Show
3736-40 (4.0')	Gray Styolitic Dolomite		No Show
3740-41 (1')	Gray Shaley Sand		No Show
3741-56 (15.0')	Gray Stoylitic Dolomite		No Show
59'			

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LEA "A" NO. 14

CORE NO. 11

CUT: 59'	RECOVERED: 59'	3756-3815	April 5, 1966
3756-89 (33.0)	Dense Light Gray Anhydritic Dolomite	Slight Show 3761-62	Heavy Show Of Oil-3780-81.5
3789-90 (1.0)	Dense Styolitic Dolomite		
90-94 (4.0)	Light Gray Styolitic Anhydritic Dolomite		
94-3800 (6.0)	Light Gray Anhydritic Dolomite, Slightly Fractured		Scattered Bleeding Oil
3800-06 (6.0)	Light Gray Styolitic Anhydritic Dolomite		
06-09 (3.0)	Gray Anhydritic Dolomite, Slightly Fractured, Slightly Vuggy		Bleeding Oil
09-13 (4.0)	Light Gray Styolitic Dolomite		
13-14 (1.0)	Gray Shaley Dolomite		
14-15 (1.0)	Light Gray Dolomite, Slightly Vuggy		Slightly Bleeding Oil
59'			

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ARTESIA, NEW MEXICO

LEA "A" NO. 14

CORE NO. 12

CUT: 56'

RECOVERED: 58'

3815-3871

April 7, 1966

3815-22 (7.0')	Gray Dense Styolitic Dolomite	Very Slight Show 3815-18
3822-23 (1.0')	Gray Shaley Dolomite	No Show
3823-36 (13.0')	Gray Dense Dolomite, Anhydritic	No Show-Except- 3825-26-Slight Show 3827 1/2-30-Fair Show
3836-45 (9.0')	Gray Slightly Fractured Pin Point Porosity to Slightly Vuggy, Anhydritic <i>Dolomite</i>	Fair to Poor Show of Oil
3845-50 (5.0')	Gray Dense Anhydritic Dolomite, Slightly Fractured	Scattered Very Very Slight Shows
3850-61 (11.0')	Gray to Tan Anhydritic Dolomite Slightly fractured, Pin Point Porosity	Show of Oil
3861-65 (4.0')	Gray to Tan Vuggy Anhydritic Dolomite	Show of Oil
3865-69 (4.0)	Gray to Tan Pin Point Porosity to Slightly Vuggy Scattered Fine Anhydritic Dolomite	Good Show of Oil
3869-71 (2.0')	Gray to Tan Pin Point Porosity Anhydritic Dolomite	Show of Oil

 56'

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LEA "A" NO. 14

CORE NO. 13

Cut: 39'

RECOVERED: 39'

3871-3910

April 11, 1966

3871-74 (3.0)	Dark Gray Dolomite-Slightly Fractured with Pin Point Porosity	Good Show
74-79 (5.0)	Light Gray Vuggy Fractured Dolomite	
79-90 (11.0)	Dense Light Gray Styolitic Dolomite with Shale Partings	Oil Show 3885-86.3
90-94 (4.0)	Dark Gray Slightly Vuggy, Slightly Fractured Dolomite	Show Of Oil
94-3898 (4.0)	Light Gray Dolomite with Pin Point Porosity	Slightly Bleeding Oil
3898-3900 (2.0)	Dense Light Gray Dolomite with Shale Partings	
3900-04.5 (4.5)	Dark Gray Dolomite with Pin Point Porosity Slightly Fractured	Good Show
04.5-07 (2.5)	Light Gray Slightly Vuggy, Slightly Fractured Dolomite	Slight Show Of Oil
07-08 (1.0)	Light Gray Styolitic Dolomite with Shale Partings	No Show
08-10 (2.0)	Light Gray Styolitic Dolomite, Slightly Vuggy, Slightly Fractured	Slight Bleeding Of Oil

39'

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