

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved,  
Budget Bureau No. 42-R365.5.

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  
SOLAR OIL COMPANY

3. ADDRESS OF OPERATOR  
P. O. Box 5596, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1980' FNL & 660' FWL  
At top prod. interval reported below  
At total depth Same

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
NM 045008 045008

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Spear Federal

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Drinkard

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
21-22S-38E

12. COUNTY OR PARISH  
Lea

13. STATE  
New Mexico

15. DATE SPUNDED 11-4-69 16. DATE T.D. REACHED 11-25-69 17. DATE COMPL. (Ready to prod.) 2-9-69 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 3367 Gr 19. ELEV. CASINGHEAD 3367

20. TOTAL DEPTH, MD & TVD 7560' 21. PLUG, BACK T.D., MD & TVD 7360' 22. IF MULTIPLE COMPL., HOW MANY\* one 23. INTERVALS DRILLED BY → 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
7048' - 7111'  
6712' - 6965' Drinkard

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN

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
10-3/4"	45.5#	854'	13-3/4"	325 sx	
7-7/8"	29.7# & 33.7#	7560'	7-7/8"	700 sx	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	7078	7148

31. PERFORATION RECORD (Interval, size and number)  
See Attached

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12-20-69	2" x 1-1/2" x 16' insert pump	Prod.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-23-69	24 hrs		→	16	20	68	1260

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→	16	20	68	39.9

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

TEST WITNESSED BY  
R. Yancey

35. LIST OF ATTACHMENTS  
Log & Deviation

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

SIGNED WJ Smith TITLE Production Clerk DATE June 24, 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.

**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

NAME	MEAS. DEPTH	TOP	TRUE VEET. DEPTH
T/Anhy	1470		
T/Salt	1560		
B/Salt	2730		
T/Yates	2920		
T/Rivers	3183		
T/Queen	3753		
T/Grayburg	3927		
T/San Andres	4346		
T/Glorieta	5584		
T/Blinbry	5978		
T/Tubb	6526		
T/Tubb	6526		
T/Drinkard	6686		
T/Abo	7125		

SPEAR FEDERAL #1

U.S. GEOLOGICAL SURVEY

7111' - 7048'	11	1/2" holes	JUL 29 9 55 AM '69 A/1500 gals 15%; F/15,000 gals + 30,000# sd.
6965' - 6874'	12	1/2" holes	A/1500 gals 15%
6712' - 6851'	16	1/2" holes	A/1000 gals 15%; F/35,000 gals + 62,500# sd.
7552' - 7373	28	1/2" holes	A/3000 gals 15%, 6000 gals 28%, 6000 gals 15% + 30,000 gals tr. wtr. Squeezed w/250 sx cmt.
7471' - 7370'	21	1/2" holes	A/2000 gals 15%
7338' - 7240'	22	1/2" holes	A/2000 gals 15%
7471' - 7240'			Squeezed w/300 sx cmt.
7337' - 7239'	22	1/2" holes	A/2000 gals 15%, 6000 gals 28%, 6000 gals 15% + 30,000 gals tr. wtr.

WELL NAME AND NUMBER Spear Federal #1  
LOCATION 1980' FNL & 660' FWL, Sec. 21, T-22-S, R-38-E  
OPERATOR SOLAR OIL COMPANY

NOTARY PUBLIC O. C. C.  
JUL 29 3 25 AM '69

The undersigned hereby certifies that she is an authorized representative of the operator who drilled the above described well and that deviation tests were conducted with the following results:

DEGREE @	DEPTH	DEGREE @	DEPTH
3/4	499'		
1	859'		
1	1347'		
1-1/4	1849'		
1-1/2	2379'		
1-1/2	2879'		
1-3/2	3130'		
3/4	3406'		
1/2	3910'		
1	4372'		
1-1/4	5070'		
3/4	5518'		
1	5873'		
1-1/4	6274'		
1-1/4	6563'		
1-1/2	7058'		
2-1/4	7400'		
3	7560'		

By: MJ Smith

Subscribed and sworn to before me this 24th day of July, 1969

R. Chavira  
Notary Public in and for the  
County of Midland, State of  
Texas

My Commission Expires: June 1, 19 70