

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-RUE-5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. 1696	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Fluid Power Pump Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 900 Bank of New Mexico Building, Albuquerque, New Mexico 87102		8. FARM OR LEASE NAME Fluid Power	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 400' SW, 1900' SW At top prod. interval reported below 400' SW, 1900' SW At total depth 400' SW, 1900' SW		9. WELL NO. 5	
14. PERMIT NO. UGGS		DATE ISSUED 4-20-72	
15. DATE SPUDDED 4-14-72		16. DATE T.D. REACHED 4-24-72	
17. DATE COMPL. (Ready to prod.) 6-15-72		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6395' CR, 6910' FB	
19. ELEV. CASINGHEAD 6297'		10. FIELD AND POOL, OR WILDCAT Medie Intrada	
20. TOTAL DEPTH, MD & TVD 5450'		21. PLUG, BACK T.D., MD & TVD CBL FR 5394'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0-5450'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Intrada 5346' - 5376'		25. WAS DIRECTIONAL SURVEY MADE Yes - Totob	
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Electric and Density Logs		27. WAS WELL CORED Yes	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE		WEIGHT, LB./FT.	
12-3/4"		32.75	
7"		25" and 20"	
DEPTH SET (MD)		HOLE SIZE	
341'		12-3/4"	
5436'		8-3/4"	
CEMENTING RECORD		AMOUNT PULLED	
180 SX CL A W/2 cc, circulated			
350 SX 50/50 Pozmix and			
100 SX CL C W/2 cc gal			
29. LINER RECORD			
SIZE		TOP (MD)	
3 1/2"		1800'	
BOTTOM (MD)		SACKS CEMENT*	
SCREEN (MD)		PACKER SET (MD)	
30. TUBING RECORD			
SIZE		DEPTH SET (MD)	
3 1/2"		1800'	
PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number)			
5346' - 5376' w/2 per ft			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5346' - 5376'		1000 gal 15% acid	
33. PRODUCTION			
DATE FIRST PRODUCTION 6-15-72		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 6-15-72		HOURS TESTED 24	
CHOSE SIZE 2"		PROD'N. FOR TEST PERIOD 480	
OIL—BBL. 480		GAS—MCF. TSTM: 1440	
WATER—BBL. TSTM		GAS-OIL RATIO TSTM	
FLOW. TUBING PRESS. 0#		CASING PRESSURE 10#	
CALCULATED 24-HOUR RATE 480		OIL GRAVITY-API (CORR.) 32.2	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY			
35. LIST OF ATTACHMENTS None			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED		TITLE	
		Cons. Engr.	
EXHIBIT NO. 5		CASE NO. 6139	
DATE 4-16-72			

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

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C. 20508

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and for a full or a partial recovery of a State acreage for a well 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, 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 13: 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: "Seals 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.)

No drillstem tests. Cored 5342' - 5366', recovered 43' - 7' oil saturated sandstone, 1' very fine white sandstone, 9' fine white oil saturated sandstone, 1' fine white sandstone, 16' fine white oil saturated sandstone, 7' very fine white sandstone.

37. SUMMARY OF FORMER ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CRUSHING TEST, FINE TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					MEAS. DEPTH	TRUE VERT. DEPTH	
Lewis Shale	0'	460'	Sandy gray shale	Point Lookout	2216'	2016'	
Mesaverde	460'	1260'	Gray sandstone with some shales and coals	Gallup	2094'	2094'	
Menefee	1260'	2018'	Gray shales, coals, and sandstone	Dakota "A"	4320'	4320'	
Point Lookout	2018'	2100'	Porous gray sandstone	Toddlito	5292'	5292'	
Menefee	2100'	2394'	Sandy gray shale	Entrada	5342'	5342'	
Gallup	2394'	3550'	Tight gray sandstones and shales				
Lower Menefee	3550'	3990'	Dark gray shale with some sand				
Greenhorn	3990'	4154'	Limestones, some black shales and sand				
Greenhorn Dakota	4154'	4320'	Tight gray sandstone				
Dakota "A"	4320'	4444'	Porous gray sandstone				
Dakota "B"	4444'	4554'	Porous gray sandstone				
Morrison	4554'	5292'	Variegated red to green shales, some sandstone				
Toddlito	5292'	5342'	Anhydrite and tan limestones				
Entrada	5342'	5450' TD	Porous gray sandstone, oil saturated				

BOLING FEDERAL #5
SUMMARY OF
WELL HISTORY

1. 6/15/72 - Completed as Entrada producer. I.P. 480 BOPD + 1440 BWPD from perfs 5346-5376 (30').
2. 6/15/72 to 11/30/73 - Produced 1638 B0. Test 8/73 6 days 12 BOPD + 1801 BWPD.
3. 11/30/73 to 12/18/73 - Attempted Water Shut off workover.
 - a.) 143 Bbls HOWCO Injectrol "G" {into perfs 5360-5376 (16')}
 - b.) 75 sx CL "A" cement
 - c.) Reperfed 5346-5356 (10')
 - d.) Pumped 100 Bbl salt wtr. into perfs 5346-5356'.
4. 12/18/73 to 5/75 - Produced from perfs 5346-56. On 5/17/75 squeezed perfs 5346-5356 with 65 Bbl lease oil in 2½ hours at 2500 psi. Returned to production. Test 7/74 15 days 29 BOPD + 381 BWPD.
5. 5/75 to 10/75 - Produced from perfs 5346-56. Last continuous test 24 days in August, 1975 well produced average 9 BOPD, 171 BWPD. S.I. Oct. 1975. Total est. cum. = 13,026 B0.

PLANNED

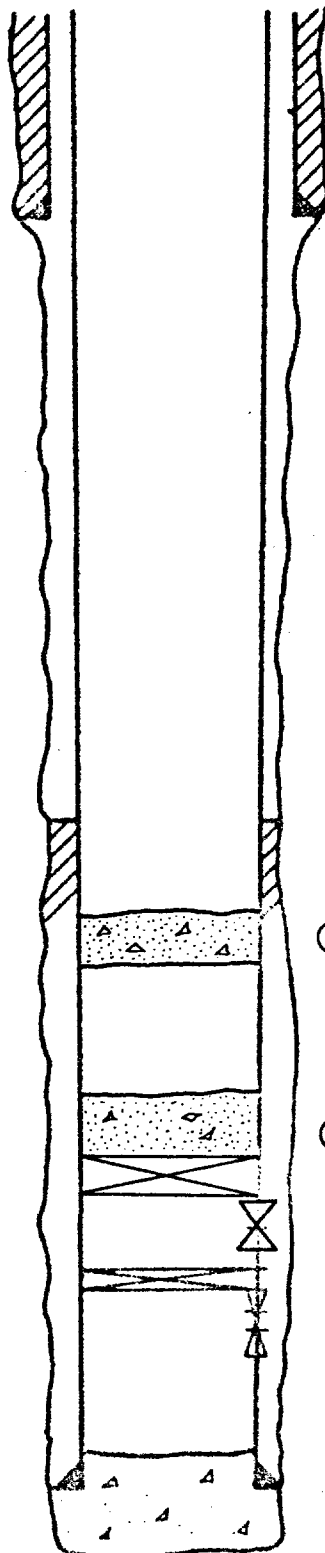
1. To plug out of Entrada as per the attached form 9-331C dated January 23, 1978.

BOLING FEDERAL #5 SCHEMATIC DIAGRAM

10 3/4" 32.75 #
241' (180 Sx "A")
C. to Surf.

T.C. ± 2950'

7" 20 & 23 #
5436' (350 Sx POZ +)
100 Sx "G"



HISTORY

PERFORATIONS

1. Original: 5346' - 5376' (2 pf.)
2. Reperf.: 5346' - 5356' (2 pf.)

STIMULATIONS / WORKOVERS

1. Initial - 1000 gal. 15% acid.
2. Water shut-off 5360' - 5376'
(a) 143 Bbl Injectrol "G"
(b) 75 Sx API CL. "A"

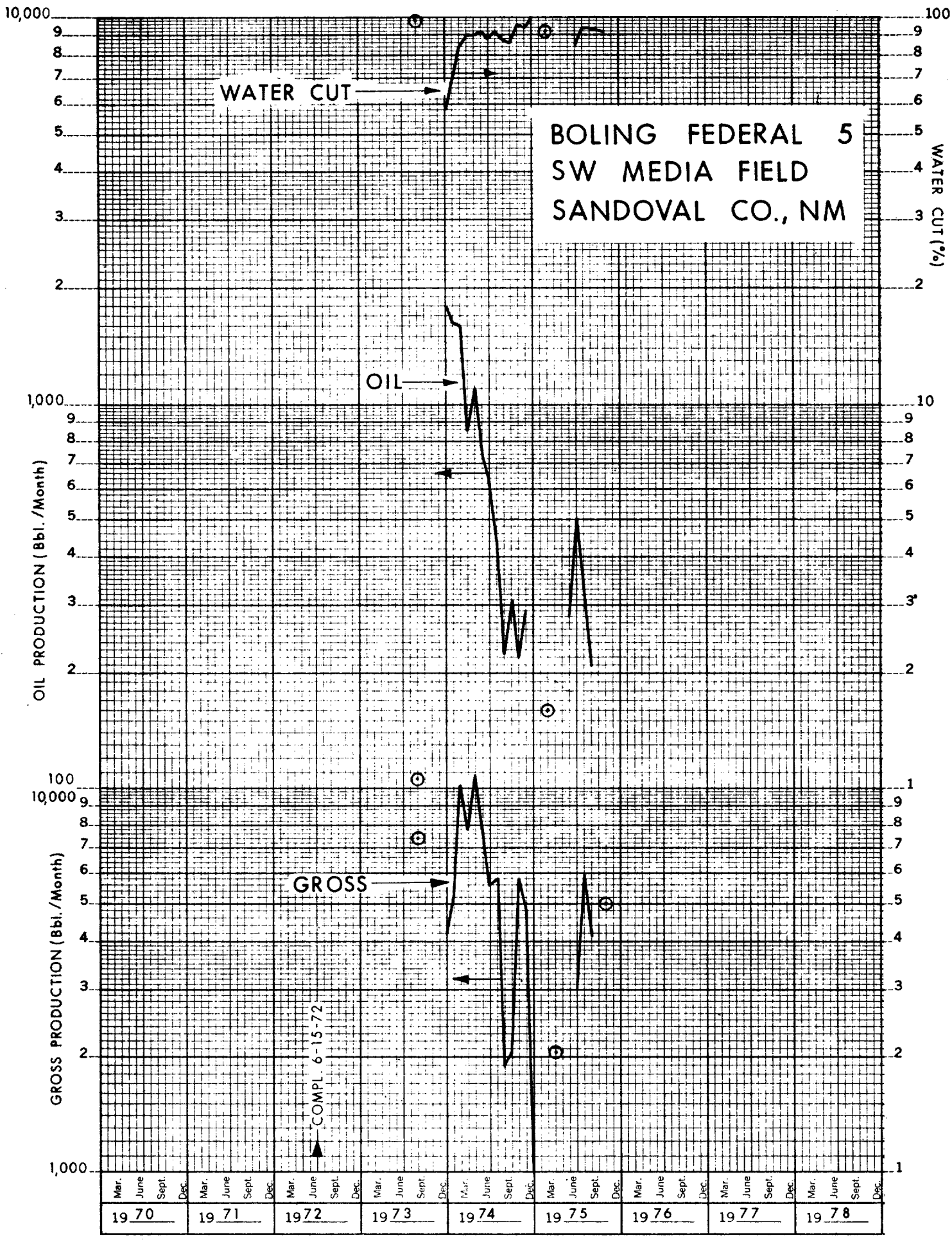
PROPOSED

- ① Set 7" CICR @ 5300' Sqz.
perfs 5346' - 5356'. Cap.
CICR w/100 ft. cement.
- ② Spot cement plug 4300' -
3800' (500').

CICR 5360'

PBTD 5394'

TD 5450'

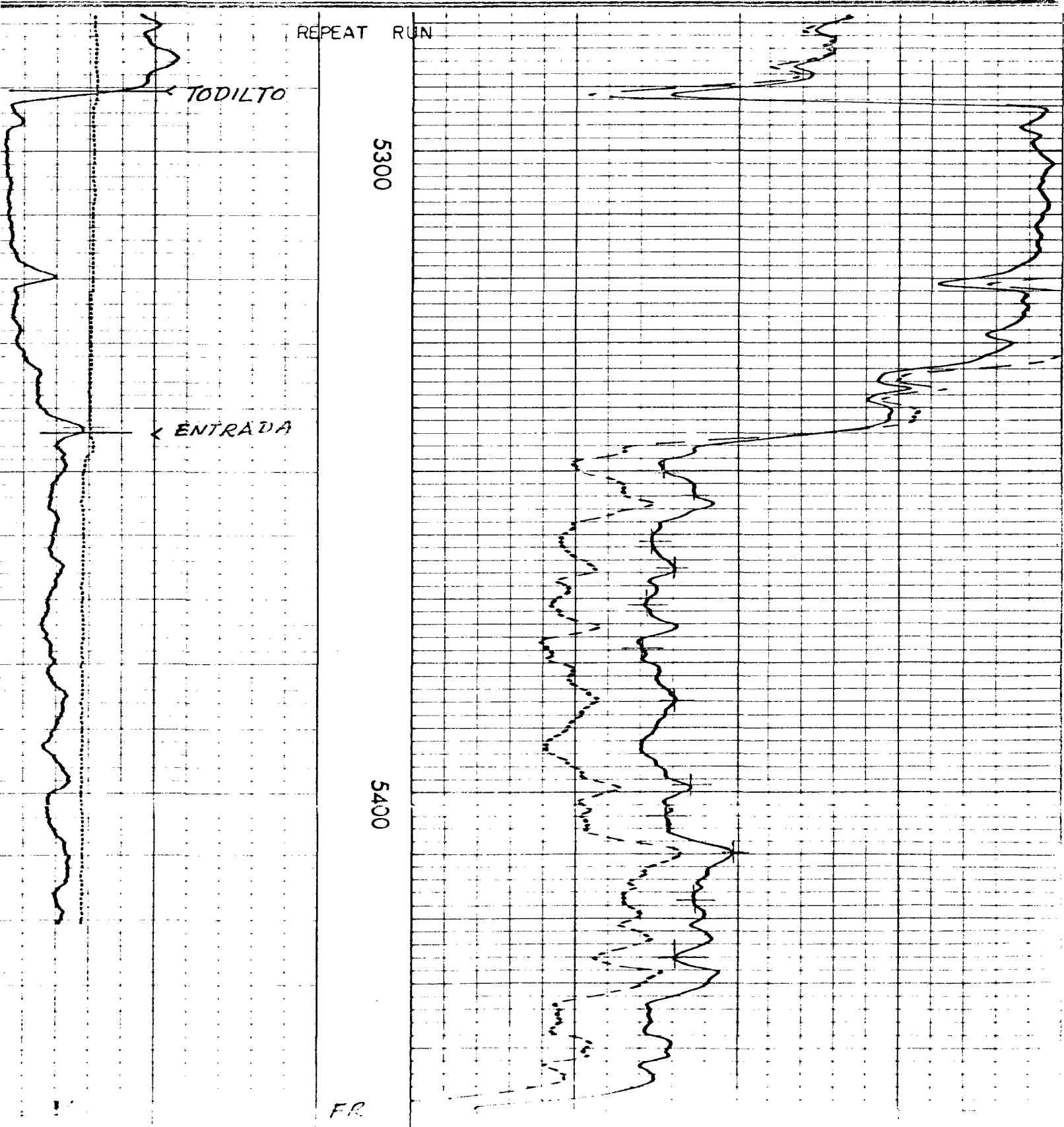


CALIPER	
Average Diameter In.	
0	150
150	300
GAMMA	
API Gamma Ray Units	

30	20	10	0
POROSITY (%) $\rho_g = 2.80$			
2.0	2.5	3.0	
	1.5	2.0	
BULK DENSITY			
Grams/cc (when $\frac{Z}{A} = 0.5$)			

PETRO-LEWIS CORP. - BOLING FED. No. 5
 FLUID POWER PUMP, INCORPORATED
 FLUID POWER PUMP # 5
 MEDIA
 SANDOVAL COUNTY, NEW MEXICO
 SEC. 22-19N-3W

T.D. LOGGED 5450'
 T.D. DRILLER 5450'
 T.D. WELEX 5451'
 G.L. ELEV. 6896'
 K. B. Elev. 6906'



Rmf .51 at 138 °F.

— → 10 ← +

POTENTIAL MILLIVOLTS

0	18" Normal	100
0		1000
0	Induction	10
0		100
0		1000
RESISTIVITY OHMS M ² /M		
400		200
CONDUCTIVITY MILLIMHOS/M		

PETRO-LEWIS CORP. - BOLING FED. No. 5

~~FLUID POWER PUMP, INCORPORATED~~

~~FLUID POWER PUMP - 5~~

MEDIA

SANDOVAL COUNTY, NEW MEXICO

SEC. 22-19N-3W

T.D. LOGGED

5445'

T.D. DRILLER

5450'

T.D. WELEX

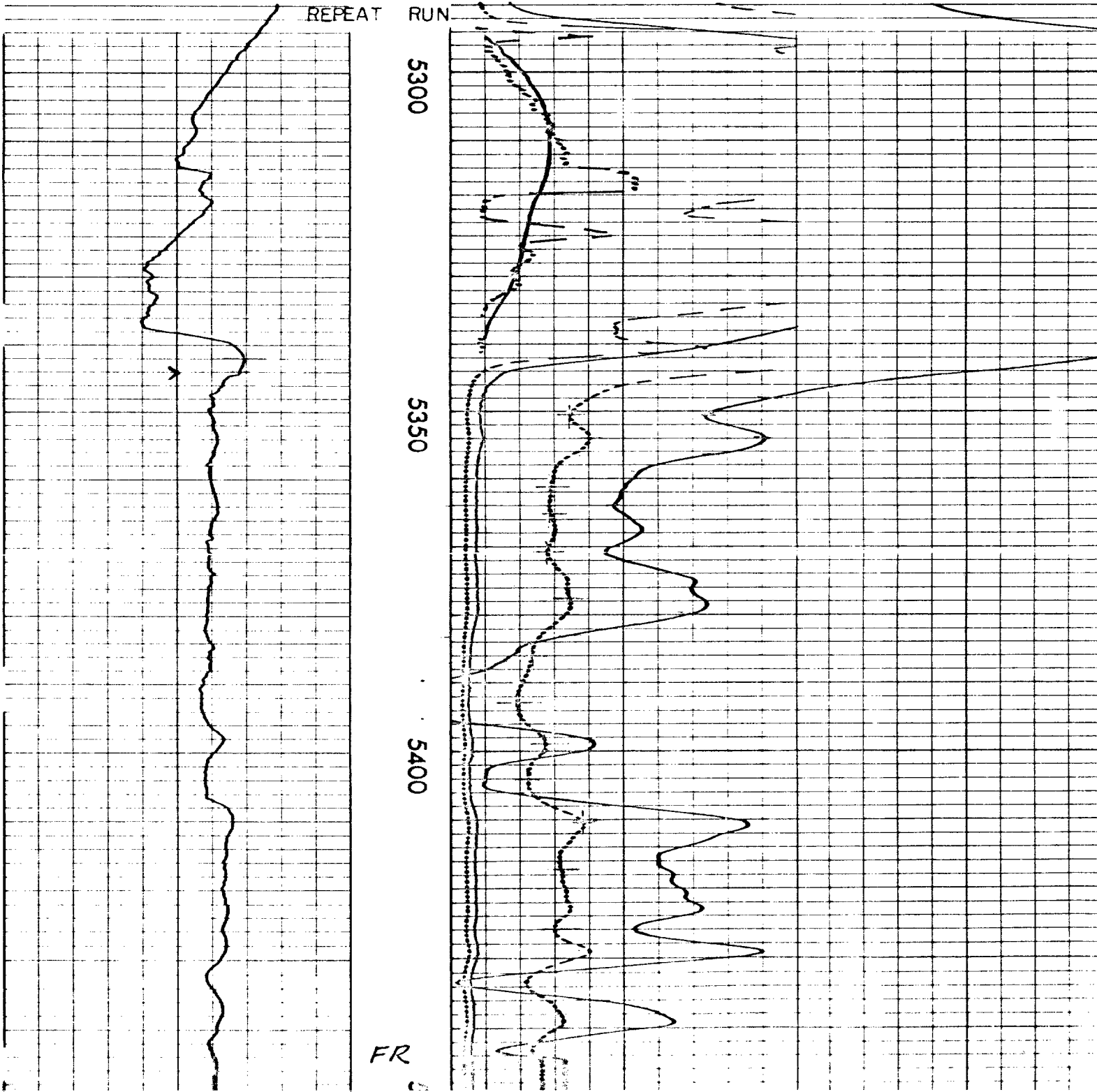
5451'

S.L. ELEV.

6896'

K.B. Elev.

6906'



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Petro-Lewis Corporation

3. ADDRESS OF OPERATOR

P.O. Box 509, Levelland, Texas 79336

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

At surface

400' FNL & 1980' FWL

At proposed prod. zone 5346'-76'

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

13 miles SW of Cuba, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH
5450'17. NO. OF ACRES ASSIGNED
TO THIS WELL
160

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6896' GR, 6910' KB, 6897 csg. head

22. APPROX. DATE WORK WILL START*

2-25-78

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	32.74#	241'	150 sx. Cl "A" w/3% cc, to sur
8-3/4"	7"	20# & 23#	5436'	350 sx. 50/50 Posmix and
				100 sx. Cl "C" w/8% gel

1-23-78 - On 12-23-77, Petro-Lewis Corp. received approval from Jerry Long, USGS, Durango, Colo., to plug and abandon the above Entrada Producer, and to plug and abandon the Federal Media #3 Gallup, Salt Water Disposal. Due to the necessity to provide adequate water disposal for the Southwest Media Unit, Petro-Lewis Corp. proposes to plug back the above exhausted, watered out, Entrada Producer and submit a request to recomplete the Gallup as a replacement salt water disposal well.

Plug Back Procedure:

1st Plug - Set 7" E-Z drill retainer @ 5300' and squeeze perfs - 5346'-76', spot 100' cmt. on top of retainer. Cmt. w/100 sxs. Class "C" Neat.

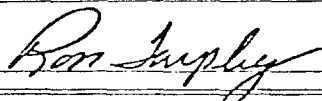
2nd Plug - Pump plug from 4300' to 3800'-500', with 100 sx. Class "C" Neat cmt.

This Plug Back Application will be followed by a request to recomplete as a Gallup Salt Water Disposal.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED



TITLE Sr. Drilling Foreman

DATE 1/23/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side