

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

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 Sun Exploration & Production Company																	
3. ADDRESS OF OPERATOR P.O. Box 1861, Midland, Texas 79702																	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface Unit Letter C, 660' FNL & 1980' FWL At top prod. interval reported below At total depth																	
14. PERMIT NO. 4						DATE ISSUED 3/27/86											
15. DATE SPUDDED 5/12/86				16. DATE T.D. REACHED 7/15/86				17. DATE COMPL. (Ready to prod.) 7/18/86				18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3361' GR				19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 15,564				21. PLUG, BACK T.D., MD & TVD 15,360				22. IF MULTIPLE COMPL., HOW MANY*				23. INTERVALS DRILLED BY ROTARY TOOLS ☒ CABLE TOOLS					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None P&A'd												25. WAS DIRECTIONAL SURVEY MADE No					
26. TYPE ELECTRIC AND OTHER LOGS RUN DLL w/Mirco SFL, CN-LD, BHC-Sonic, BHC -Sonic, CNLD, DIL-SFL												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					
13-3/8"		68 & 61#		613		17 1/2		650 sks "C"				125 sks circ'd					
9-5/8"		36#		5240		12 1/4		1900 sks "C"				296 sks circ'd					
7"		26#		13243		8-3/4		1500 sks Lite & H				TOC @ 6100 IS					
29. LINER RECORD																	
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		30. TUBING RECORD							
4 1/2		12937		15564		370				SIZE		DEPTH SET (MD)		PACKER SET (MD)			
										None P&A'd							
31. PERFORATION RECORD (Interval, size and number) See Attached Sheet																	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																	
DEPTH INTERVAL (MD)						AMOUNT AND KIND OF MATERIAL USED											
See Attached Sheet																	
33.* PRODUCTION																	
DATE FIRST PRODUCTION 8/18/87				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing @ 40 mcfpd						WELL STATUS (Producing or shut-in) ACCEPTED FOR RECORD							
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO			
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.		OIL GRAVITY-API (CORR.)					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY CARLSBAD, NEW MEXICO																	
35. LIST OF ATTACHMENTS 3160-5 on P&A, inclination report.																	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																	
SIGNED <u>Maria L. Perez</u>				TITLE <u>Associate Accountant</u>				DATE <u>5/7/87</u>									

*(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 38, 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Bone Spring	9327	12337	Limestone, F.Gr. Sand, Shale	Delaware Mountain	5457	5457
st Bone Spring Sand	10436	10470	Sand, Limey, Shaly	Group	9327	9327
nd Bone Spring Sand	10996	11004	V. Limey, Shaly Sand	Bone Spring	12337	12337
rd Bone Spring Sand	12150	12166	Shale, Limey, Sandy	Wolfcamp	13002	13002
Wolfcamp	12337	13002	Interbedded, Lime, Sand, Shale	Wolfcamp Shale	14183	14183
Wolfcamp Shale	13002	14183	Shale, Interbedded Sand & Lime	Atoka	14713	14713
Atoka	14183	14713	Interbedded Sand, Shale, Lime	Morrow		
Morrow	14713	15554	Interbedded Sand, Shale, Lime			
Como	14906	14914	Sand, SLI. Limey			
Sinatra	15053	15056	Sand			
Pitchfork	15325	15362	Sand, Limey, SLI. Shaley			

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#31 Perforation Record

15380'-15442' (13.5 gram, 1 JSPF, 22 holes) Pitchfork Sd

15036'-15060' (13.5 gram, 2 JSPF, 40 holes) Sinatra Sd

14898'-14902' (13.5 gram, 2 JSPF, 22 holes) Como Sd

14690'-14706' (16 gram, 2 JSPF, 33 holes) Martin Sd

14186'-14194' (16 gram, 2 JSPF, 17 holes) Atoka

#32 Acid, Shot, Fracture, Cement Squeeze, Etc.

15380'-15442' Acidized w/3000 gls 7½% Morrow BC Acid + 40 ball sealers
Pitchfork Sd

14898'-15060' Acidized w/3000 gls 7½% Morrow BC Acid + 120 ball sealers
Sinatra Sd

14690'-15060' Acidized w/6000 gls 7½% Morrow BC Acid w/130 ball sealers, frac'd
Martin Sd w/12,000 gls versagel 1500 + 3000# 20/40 Interprop.

14186'-14194' Acidized w/1500 gls Morrow BC Acid + 34 ball sealers
Atoka



INCLINATION REPORT

OPERATOR:

Sun Exploration & Production Company
 P. O. Box 1861
 Midland, Texas 79702

LOCATION:

Pitchfork Federal #1,
 660' FNL & 1980' FWL,
 Sec. 11, T-25-S, R-34-E,
 Lea County, New Mexico

DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES
265	1/4	3,520	2-3/4	7,231	1-1/4
610	1-3/4	3,627	2-1/2	7,527	2
841	1/4	3,735	1-1/2	7,618	1-3/4
1,174	3/4	3,855	1-1/4	7,803	1-3/4
1,557	3/4	4,108	1/4	8,042	2
1,952	1/2	4,540	1/2	8,179	2
2,194	1-1/4	5,020	2-1/2	8,550	1-1/4
2,444	1/4	5,160	3	8,865	2-3/4
2,708	1-1/4	5,339	1-3/4	9,048	2-1/4
2,784	1-1/2	5,540	1-1/2	9,330	2
2,850	1-3/4	5,788	1-1/4	9,510	2-1/4
3,009	2-3/4	6,029	1-1/4	9,860	3-3/4
3,151	3-1/2	6,295	3/4	10,091	4
3,245	3-1/2	6,595	2	10,165	3-3/4
3,325	3	6,685	1	10,316	4-1/4
3,416	3	6,930	1-1/2	10,433	3

COUNTY OF MIDLAND
 STATE OF TEXAS

The undersigned states that he has knowledge of the facts and matter herein set forth and that the same are true and correct.

 L. E. Grimes, President

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ day of _____ 19____

 Notary Public

My commission expires: December, 1988

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MOBIS OFFICE

INCLINATION REPORT

OPERATOR:

Sun Exploration & Production Co.

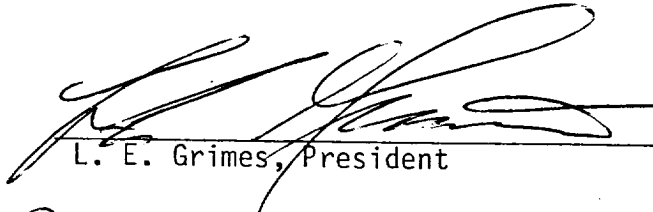
LOCATION:

Pitchfork Federal #1

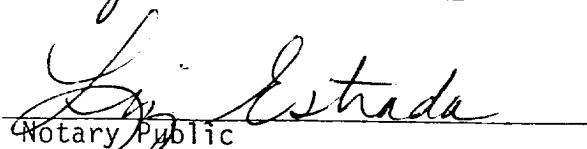
DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES
10,567	3-1/2	13,943	2		
10,741	3-3/4	14,322	1-3/4		
10,875	4	14,608	2		
11,034	4	15,365	3-1/2		
11,187	4-1/2	15,564	3-1/2		
11,300	4-1/2				
11,387	4				
11,501	3-3/4				
11,639	4				
11,842	3				
12,010	3-1/2				
12,110	2-1/2				
12,411	1				
12,746	1-1/4				
13,243	3/4				
13,660	1-3/4				

COUNTY OF MIDLAND
STATE OF TEXAS

The undersigned states that he has knowledge of the facts and matter herein set forth and that the same are true and correct.


L. E. Grimes, President

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29 day of July 1986


Notary Public

My commission expires: December, 1988

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MAY 18 1987
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