

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 ☐ WILDCAT - GAS STORAGE ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐
2. NAME OF OPERATOR
SOUTHERN UNION GAS COMPANY
3. ADDRESS OF OPERATOR
P. O. Box 808, FARMINGTON, NEW MEXICO 87401
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
2380 FT. FROM THE NORTH LINE & 1730 FT. FROM THE WEST LINE.
At proposed prod. zone
AQUA ZARCO - 2275 - 2400
PERMIAN - 3175 - 3400
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
5 MILES WEST OF SAN YSIDRO, NEW MEXICO
15. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST LEASE LINE 260 FT.
TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. salt line, if any.)
16. NO. OF ACRES IN LEASE
1680
17. NO. OF ACRES ASSIGNED TO THIS WELL
40 ACRES 8E/4 NE/4
18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
APPROX. 2640 FT.
19. PROPOSED DEPTH
3500
20. ROTARY OR CABLE TOOLS
ROTARY
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5816 UNGRADED GR.
22. APPROX. DATE WORK WILL START*
DECEMBER 22, 1971

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	26.0#	400 FT.	300 BBL.
7-7/8"	4-1/2"	10.5#	3500	700 BBL.

1. WE PROPOSE TO DRILL A 7-7/8" HOLE TO A TOTAL DEPTH OF APPROX. 3500 FT.
2. IT IS OUR INTENTION TO CUT A 50 FT. CORE IN THE AQUA ZARCO FORMATION FROM APPROX. 2380 TO 2390 AND DRILL STEM TEST.
3. IT IS ALSO OUR INTENTION TO CUT A 50 FT. CORE AND TEST THE PERMIAN FROM APPROX. 3250 TO 3300 FEET.
4. SHOULD CORE, TEST, AND LOG DATA BE FAVORABLE A STRING OF 4-1/2" CASING WILL BE RUN AND FURTHER TESTS WILL BE MADE.

STRATIGRAPHIC TEST FOR GEOLOGIC INFORMATION

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. ORIGINAL SIGNED BY
SIGNED B. R. VANDERSIJCE AREA SUPERINTENDENT DATE December 10, 1971
(This space for Federal or State office use)

PERMIT NO. _____

APPROVED BY _____

CONDITIONS OR ABNORMAL IS ANY:

APPROVAL DATE _____

THIS WELL IS BEING DRILLED AS A STRATIGRAPHIC TEST-HOLE FOR GEOLOGIC INFORMATION ONLY AND UNDER NO CIRCUMSTANCES WILL IT BE PRODUCED.

APPROVED

DEC 15/1971

E. A. SCHMIDT

ACTING DISTRICT ENGINEER

MAY 24 1972

OIL CON. COM.
DIST. 3

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator SOUTHERN UNION PRODUCTION COMPANY		Lease SAN YSIDRO		Well No. 2
Unit Letter F	Section 20	Township 15 NORTH	Range 1 EAST	County SANDOVAL
Actual Footage Location of Well: 2380 feet from the NORTH line and 1730 feet from the WEST line				
Ground Level Elev. 5816.0	Producing Formation WILDCAT	Pool NONE	Dedicated Acreage: SE 1/4 NW 1/4 Acres 40	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

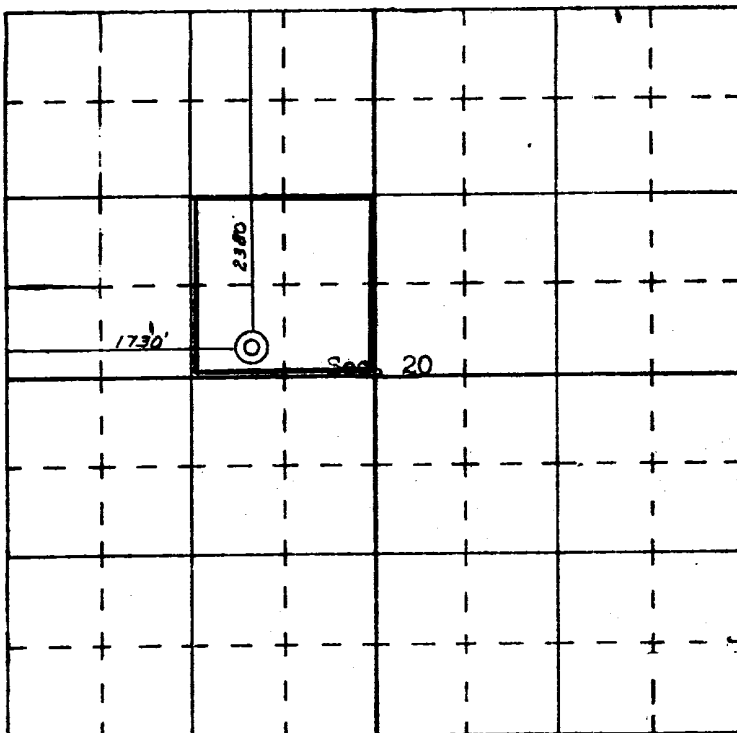
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

ORIGINAL SIGNED BY
B. R. VANDERSLICE
 Name
B. R. VANDERSLICE
 Position
AREA SUPERINTENDENT
 Company
SOUTHERN UNION PRODUCTION
 Date
DECEMBER 10, 1971

I hereby certify that the well location shown on this plat 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
December, 1971
[Signature]
 Registered Professional Engineer
 and Land Surveyor
JAMES B. MEESE
1168
 Certificate No.



N

SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

Well file

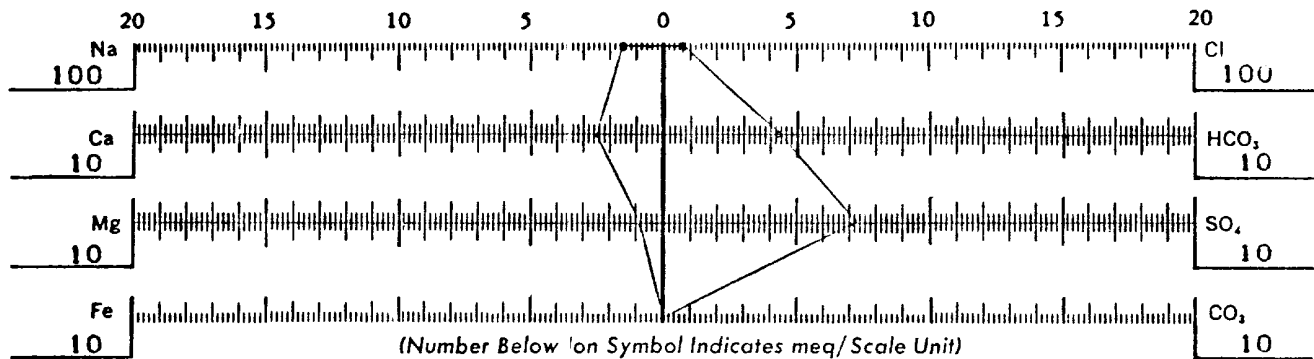
PRODUCTION PROFITS
DIVISION OF SONICS INTERNATIONAL, INC.
Petroleum Service Laboratory
DALLAS, TEXAS

Client Southern Union Production Company
County _____ State _____
Field No. 2 San Ysidro Lease _____ Well No. _____
Formation _____ Depth _____ Perf. _____
Source of Sample Aqua Zarco No. 2 San Ysidro S.U.P. from Perforations 2236 ft.-2260 ft.
Date Collected 2-9-72 by _____

REPORT OF WATER ANALYSIS

Lab. Number P-3416 Specific Gravity 1.0116 pH 6.9
Total Dissolved Solids 130.47 Resistivity (Ohmmeters at 68° F.) .692 Hydrogen Sulfide ABSENT

DISSOLVED MINERAL ANALYSIS PATTERN



DISSOLVED SOLIDS ANALYSIS

	mg/l	meq/l
Total Solids (Calc.)	<u>130.47</u>	
Sodium (Calc.)	<u>36.40</u>	<u>1.584</u>
Iron (Dissolved)	<u>0</u>	<u>0.</u>
Barium	<u>0</u>	<u>0.</u>
Calcium	<u>50.0</u>	<u>2.49</u>
Magnesium	<u>97</u>	<u>8.0</u>
Chloride	<u>2660</u>	<u>75.0</u>
Bicarbonate	<u>2650</u>	<u>43.5</u>
Carbonate	<u>0</u>	<u>0.</u>
Sulfate	<u>3500</u>	<u>72.8</u>

TOTAL IRON _____

SOLUBILITY CALCULATIONS

Calcium Carbonate Stability Index at 77° F	<u>.91</u>	Scaling Tendency	<u>P0S.</u>
Calcium Sulfate Stability at 95° F			
Concentration <u>24.9</u> meq/l.	Calc. Solubility <u>30.84</u> meq/l.	Percent Saturation	<u>80.73</u>
Barium Sulfate Stability at 95° F			
Concentration _____ meq/l.	Calc. Solubility _____ meq/l.	Percent Saturation	_____

REMARKS

PRECIPITATED AND SUSPENDED SOLIDS ANALYSIS

	mg/l
Total Undissolved Solids	_____
Oil (Solvent Soluble)	_____
Acid Solubles	_____
Iron _____ as _____	
Calcium _____ as _____	
Magnesium _____ as _____	
Sulfate _____ as _____	
Organic (Ignition Loss)	_____
Acid Insolubles	_____
Sand & Clay	_____
Barium Sulfate	(Quan.) _____
	(Qual.) _____

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

Company SOUTHERN UNION PRODUCTION CO. Formation AQUA MARCA File AP-3-2521
Well # 2 SAN YSIDRO Core Type DIA. CORE 3 1/2" Date Report 1-14-72
Field WILDCAT Drilling Field WILDCAT Analysis 1268
County SANDOVAL State N. MEX. Elev. 5624 Location 180 20 - 1 1/2 N - R 1 E

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PERCENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	2251-52	279	18.5	0.0	54.1	SS, WH, MED, SL CALC
2	2252-53	164	15.0	0.0	71.3	SS, WH, MED
3	2253-54	201	18.6	0.0	73.6	SS, WH, MED
4	2254-55	513	18.2	0.0	71.4	SS, WH, MED
5	2255-56	199	15.6	0.0	72.4	SS, WH, MED
6	2256-57	121	16.3	0.0	67.5	SS, WH, MED
7	2257-58	317	17.0	0.0	72.9	SS, WH, MED
8	2258-59	363	16.2	0.0	75.3	SS, WH, MED
9	2259-60	224	16.6	0.0	71.1	SS, WH, MED
10	2260-61	245	16.4	0.0	72.5	SS, WH, MED
11	2261-62	242	15.7	0.0	68.1	SS, WH, MED
12	2262-63	340	17.1	0.0	70.7	SS, WH, MED
13	2263-64	293	16.1	0.0	73.9	SS, WH, MED
14	2264-65	469	16.3	0.0	74.2	SS, WH, MED
15	2265-66	187	16.4	0.0	68.9	SS, WH, MED
16	2266-67	242	16.6	0.0	65.7	SS, WH, MED
17	2267-68	92	11.5	0.0	59.9	SS, WH, MED
18	2268-69	95	14.8	0.0	61.4	SS, WH, MED
19	2269-70	11	12.3	0.0	76.4	SS, WH, MED
20	2270-71	66	13.0	0.0	67.6	SS, WH, MED
21	2271-72	181	16.3	0.0	65.0	SS, WH, MED
22	2272-73	60	13.2	0.0	77.4	SS, WH, MED
23	2273-74	288	15.7	0.0	62.4	SS, WH, MED
24	2274-75	57	13.2	0.0	64.3	SS, WH, MED
25	2275-76	224	17.0	0.0	65.2	SS, WH, MED
26	2276-77	196	15.3	0.0	64.0	SS, WH, MED
27	2277-78	129	15.4	0.0	63.6	SS, WH, MED
28	2278-79	101	16.3	0.0	71.7	SS, WH, MED
29	2279-80	193	14.4	0.0	77.3	SS, WH, MED
30	2280-81	34	10.7	0.0	71.0	SS, WH, MED
31	2281-82	167	12.5	0.0	68.1	SS, WH, MED
32	2282-83	164	13.9	0.0	74.9	SS, WH, MED
33	2283-84	60	12.3	0.0	76.4	SS, WH, MED
34	2284-85	190	11.7	0.0	69.2	SS, WH, MED
35	2285-86	95	13.9	0.0	66.2	SS, WH, MED
36	2286-87	158	12.3	0.0	70.0	SS, WH, MED
37	2287-88	14	10.4	0.0	70.3	SS, WH, MED
38	2288-89	101	11.7	0.0	69.2	SS, WH, MED
39	2289-90	0.02	2.7	0.0	88.9	SS, GRY, VFN, SH LAM
40	2290-91	0.11	7.2	0.0	59.7	SS, GRY, VFN, SH LAM
41	2291-92	3.3	12.9	0.0	34.8	SS, GRY, VFN, SH LAM
42	2292-93	34	19.3	0.0	73.0	SS, WH, MED

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

Petroleum Research Engineering

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DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company SOUTHERN UNION PRODUCTION CO. Formation PERMIAN Well RP-3-2521
Well # 2 SAN YSIDRO Core Type DIA. CORE 3 1/2" Date Report 1-14-72
Field WILCOAT Drilling Fluid WATER BASED MUD Analysis MOHL
County SANTOVAL State N.M. Rev. 5824 Location SEC 30 - T. 15N - R. 1E

Mineralogical Abbreviations

SAND-SS SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	LAMINAR SHALE-SH CLAY-CLAY	BITUMEN MUD-CLAY COARSE-CLAY	DRY-CLAY-CLAY FINE-CLAY GRANULAR-CLAY	CLAY-CLAY CLAY-CLAY VEGET-VEG	STRUCTURED-FRAC FORMATION-LAM VEGET-VEG	SLIGHTLY-SL/ VERY-V/ WITH-W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			
43	2293-94	164	14.1	0.0	65.7	SS, WH, RED		
44	2294-95	201	16.6	0.0	65.6	SS, WH, RED		
45	2295-96	159	18.5	0.0	65.9	SS, WH, RED		
46	2296-97	203	16.7	0.0	65.4	SS, WH, RED		
47	2297-98	222	14.7	0.0	65.7	SS, WH, RED		
48	2298-99	201	16.2	0.0	74.7	SS, WH, RED		
49	2299-00	158	16.1	0.0	73.9	SS, WH, RED		
50	2300-01	241	15.0	0.0	72.7	SS, WH, RED		
51	2301-02	230	16.7	0.0	67.7	SS, WH, RED		
1-26-72 PERMIAN FORMATION								
52	3187-88	20	22.2	0.0	70.7	SS, RED, VFN-FN, SLTY, CALO		
53	3188-89	1.0	19.5	0.0	75.9	SS, RED, VFN-FN, SLTY, CALO		
54	3189-90	7.2	23.6	0.0	75.3	SS, RED, VFN-FN, SLTY, SL CALO		
55	3190-91	1.2	20.8	0.0	76.1	SS, RED, VFN-FN, SLTY, SL CALO		
56	3191-92	9.9	23.1	0.0	77.0	SS, RED, VFN-FN, SLTY, SL CALO		
57	3192-93	6.2	23.9	0.0	76.1	SS, RED, VFN-FN, SLTY, SL CALO		
58	3193-94	34	25.7	0.0	79.4	SS, RED, VFN-FN, SLTY, SL CALO		
59	3194-95	80	23.6	0.0	80.1	SS, RED, VFN-FN, SLTY, SL CALO		
60	3195-96	0.83	19.0	0.0	81.2	SS, RED, VFN-FN, SLTY, SL CALO		
61	3196-97	19	24.3	0.0	73.2	SS, RED, VFN-FN, SLTY, SL CALO		
62	3197-98	22	22.6	0.0	77.4	SS, RED, VFN-FN, SLTY, SL CALO		
63	3198-99	0.83	12.4	0.0	75.1	SS, RED, VFN-FN, SLTY, SL CALO		
64	3199-00	19	23.7	0.0	81.2	SS, RED, VFN-FN, SLTY, SL CALO		
65	3200-01	11	23.1	0.0	81.1	SS, RED, VFN-FN, SLTY, SL CALO		
66	3201-02	28	26.8	0.0	78.7	SS, RED, VFN-FN, SLTY, SL CALO		
67	3202-03	8.2	19.3	0.0	75.6	SS, RED, VFN-FN, SLTY, SL CALO		
68	3203-04	5.6	22.3	0.0	76.6	SS, RED, VFN-FN, SLTY, SL CALO		
69	3204-05	224	24.1	0.0	73.9	SS, RED, VFN-FN, SLTY, SL CALO		
70	3205-06	51	23.5	0.0	76.1	SS, RED, VFN-FN, SLTY, SL CALO		
71	3206-07	20	22.3	0.0	79.9	SS, RED, VFN-FN, SLTY, SL CALO		
72	3207-08	392	24.6	0.0	80.2	SS, RED, VFN-FN, SLTY, SL CALO		
73	3208-09	147	24.0	0.0	80.4	SS, RED, VFN-FN, SLTY, SL CALO		
74	3209-10	14	24.9	0.0	80.4	SS, RED, VFN-FN, SLTY, SL CALO		
75	3210-11	0.16	14.6	0.0	82.1	SS, RED, VFN, V/SLTY, SHLY		
76	3211-12	0.35	17.8	0.0	80.4	SS, RED, VFN, V/SLTY, SHLY		
77	3212-13	0.16	15.1	0.0	81.5	SS, RED, VFN, V/SLTY, SHLY		
78	3213-14	0.02	9.0	0.0	91.1	SS, RED, VFN, V/SLTY, SHLY		
79	3214-15	0.02	10.2	0.0	86.2	SS, RED, VFN, V/SLTY, SHLY		
80	3215-16	0.02	10.5	0.0	83.8	SS, RED, VFN, V/SLTY, SHLY		

CORE ANALYSIS RESULTS

Company SOUTHERN UNION PRODUCTION CO. Formation PIRENEAN File RP-3-3521
 Well # 2 SAN YSIDRO Core Type DRILL. CORE Date Report 1-26-72
 Field WILCOCK Drilling Fluid WATER BASE MUD Analysts MOHL
 County SANDOVAL State N. MEX. Elev. 5824 Location SEC 20 - T. 15N - R. 1E

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
81	3216-17	0.07	13.9	0.0	79.3	SS, RED, VFN, V/SLTY, SHLY
82	3217-18	0.07	12.5	0.0	69.6	SS, RED, VFN, V/SLTY, SHLY
83	3218-19	0.04	11.4	0.0	87.9	SS, RED, VFN, V/SLTY, SHLY
84	3219-20	1.7	13.4	0.0	88.1	SS, RED, VFN, V/SLTY, SHLY
85	3220-21	0.42	13.6	0.0	88.8	SS, RED, VFN, V/SLTY, SHLY
86	3221-22	0.28	16.1	0.0	83.9	SS, RED, VFN, V/SLTY, SHLY
87	3222-23	0.07	12.5	0.0	84.6	SS, RED, VFN, V/SLTY, SHLY
88	3223-24	0.99	16.6	0.0	81.3	SS, RED, VFN, V/SLTY, SHLY
89	3224-25	0.67	14.9	0.0	78.5	SS, RED, VFN, V/SLTY, SHLY
90	3225-26	0.23	16.2	0.0	85.1	SS, RED, VFN, V/SLTY, SHLY
91	3226-27	0.75	19.5	0.0	77.9	SS, RED, VFN, V/SLTY, SHLY
92	3227-28	0.69	15.9	0.0	85.0	SS, RED, VFN, V/SLTY, SHLY
93	3228-29	0.30	15.5	0.0	83.2	SS, RED, VFN, V/SLTY, SHLY
94	3229-30	23	19.2	0.0	71.3	SS, RED, VFN-FN, V/SLTY, SHLY
95	3230-31	1.0	15.1	0.0	73.5	SS, RED, VFN, V/SLTY, SHLY
96	3231-32	3.1	24.9	0.0	83.6	SS, RED, VFN, V/SLTY, SHLY
97	3232-33	6.8	24.7	0.0	84.1	SS, RED, VFN, V/SLTY, SHLY
98	3233-34	10	24.3	0.0	82.3	SS, RED, VFN, V/SLTY, SHLY
99	3234-35	5.2	23.4	0.0	83.8	SS, RED, VFN, V/SLTY, SHLY
100	3235-36	8.8	25.8	0.0	83.0	SS, RED, VFN, V/SLTY, SHLY
101	3236-37	13	23.1	0.0	81.8	SS, RED, VFN, V/SLTY, SHLY
102	3237-38	4.8	21.6	0.0	78.7	SS, RED, VFN, V/SLTY, SHLY

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

Company SOUTHERN UNION PRODUCTION CO. Formation AQUA ZARCA File RP-3-2529
Well # 2 SAN YSIDRO Core Type DIA. CONV. 3 1/2" Date Report 2-4-72
Field WILDCAT Drilling Fluid WATER BASE MUD Analysts MOHL
County SANDOVAL State N. MEX. Elev. 5810 DF Location SEC 20 - T 15N - R 1E

5724
Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GR VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

VERT. K_A

37	2287-88	17
38	2288-89	57
39	2289-90	0.01
40	2290-91	0.07
41	2291-92	1.2
42	2292-93	10
43	2293-94	115
44	2294-95	129



LTR



Job separation sheet

10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117
118	119	120	121	122	123	124	125	126
127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153
154	155	156	157	158	159	160	161	162
163	164	165	166	167	168	169	170	171
172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189
190	191	192	193	194	195	196	197	198
199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216
217	218	219	220	221	222	223	224	225
226	227	228	229	230	231	232	233	234
235	236	237	238	239	240	241	242	243
244	245	246	247	248	249	250	251	252
253	254	255	256	257	258	259	260	261
262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

N.M. 14237

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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—" for such proposals.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

SAN YSIDRO

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC. T., R., M., OR BLK. AND
SURVEY OR AREA

**SEC. 20, T-19N, R-1E,
N.M.P.M.**

12. COUNTY OR PARISH

SANDOVAL

13. STATE

NEW MEXICO

1.

OIL WELL ☐ GAS WELL ☐ OTHER **WILDCAT - GAS STORAGE**

2. NAME OF OPERATOR

SOUTHERN UNION GAS COMPANY

3. ADDRESS OF OPERATOR

P. O. Box 808, FARMINGTON, NEW MEXICO 87401

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

See also space 17 below.)
At surface

2380 FT. FROM THE NORTH LINE AND 1730 FT. FROM THE WEST LINE.

14. PERMIT NO.

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

5819 FT. R.K.B.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☒

(Other) **SUPPLEMENTARY HISTORY** ☒

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. DRILLED 7-7/8" HOLE TO TOTAL DEPTH OF 3396 FT. R.K.B. REACHED TOTAL DEPTH JANUARY 25, 1972.
2. RAN 104 JOINTS OF 5-1/2", 15.50#, K-55 CASING. LANDED AT 3395 FT. R.K.B. STAGE COLLAR SET AT 1097 FT. R.K.B. AND 2670 FT. R.K.B. CEMENTED 1ST STAGE 8/230 CU. FT. OF CEMENT. PLUS DOWN 3100 P.M. 1/26/72. CEMENTED 2ND STAGE THRU STAGE COLLAR AT 2670 FT. 8/650 CU. FT. OF CEMENT. PLUS DOWN 7100 P.M. 1/26/72. CEMENTED 3RD STAGE THRU STAGE COLLAR AT 1097 FT. 8/320 CU. FT. OF CEMENT. PLUS DOWN 10130 P.M. 1/26/72. CEMENT CIRCULATED TO SURFACE. DISPLACED ALL PLUGS 8/9.28/GAL. DRILLING MUD.
3. RAN 4-3/4" BIT DRILLED OUT STAGE COLLAR AT 1097 FT. CLEANED OUT TO 2650 FT. R.K.B.
4. RAN GAMMA RAY-NEUTRON CORRELATION LOG AND CEMENT BOND LOG.
5. PERFORATED AQUA LARGA FORMATION 4 SHOTS/FT. FROM 2236 FT. - 2260 FT. R.K.B. TOTAL OF 96 HOLES.
6. ACIDIZED PERFORATIONS 8/230 GALLONS OF 7-1/2% HCL ACID.
7. RAN 69 JOINTS OF 2-3/8", E.U.E., 4.70#, J-55 TUBING. LANDED AT 2188 FT. R.K.B.
8. COMPLETED WELL JANUARY 28, 1972.



18. I hereby certify that the foregoing is true and correct

SIGNED **GILBERT D. NOLAND, JR.**

GILBERT D. NOLAND, JR.

TITLE **DRILLING SUPERINTENDENT**

DATE **FEBRUARY 9, 1972**

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE



FEB 16 1972

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

St. John's

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and location of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

