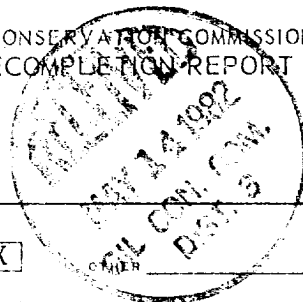


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LAND OFFICE	
OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 11-1-76



5a. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.

1a. TYPE OF WELL	OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
b. TYPE OF COMPLETION	NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEPEN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
			DIFF. RESVR. <input type="checkbox"/>	OTHER <input type="checkbox"/>

7. Unit Agreement Name
8. Farm or Lease Name
Kin Klizhin

2. Name of Operator
Santa Fe Energy Company
3. Address of Operator
7200 I-40 West, Bldg 'C', Amarillo, Texas 79106

9. Well No.
1
10. Field and Pool, or Wildcat
Wildcat

4. Location of Well
UNIT LETTER <u>G</u> LOCATED <u>2310</u> FEET FROM THE <u>North</u> LINE AND <u>2310</u> FEET FROM

12. County
McKinley

THE <u>East</u> LINE OF SEC. <u>5</u> TWP. <u>20N</u> RGE. <u>11W</u> NEPM
--

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
12-18-81	12-28-81	P & A 2-12-82	6193' GL	N/A

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
4723'	Surface	N/A	→	All	None

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
None	No

26. Type Electric and Other Logs Run	27. Was Well Cored
Dual Induction/SFL, CNL/FDC, BHC Sonic, Velocity Survey	No

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	218'	12 1/4"	150 sacks	None
5 1/2"	15.5	4700'	7 7/8"	1590 sacks	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None							

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	See Attachments	

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
None						P & A	
Date of Test	Hours Tested	Choke Size	Prod'n. Per 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

35. List of Attachments
Results of Water Analyses. Detailed account of attempted completions and subsequent plugging operations.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED <u>Sammy H. Morgan</u>	TITLE <u>Drilling Engineer</u>	DATE <u>May 4, 1982</u>
-------------------------------	--------------------------------	-------------------------

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any new or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout <u>1336</u>	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos <u>1455</u>	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup <u>2484</u>	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn <u>3144</u>	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota <u>3340</u>	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison <u>3738</u>	T. _____
T. Tubb _____	T. Granite _____	T. Todilto <u>4633</u>	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada <u>4641</u>	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....
 No. 2, from.....to..... No. 5, from.....to.....
 No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.
 No. 2, from.....to.....feet.
 No. 3, from.....to.....feet.
 No. 4, from.....to.....feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1336	1455	119	Point Lookout				
2482	2646	162	Gallup				
3340	3738	398	Dakota				
3738	4543	805	Morrison				
4633	4641	8	Todilto				

KIN KLIZHIN NO. 1
(Attachment to Form C-105)

- A. Test Zone #1 - Entrada (4642'-4650')*
Run in hole with 2 3/8" tubing and set retrievable bridge plug (RBP) at 4665'*. Pull up and set Halliburton's RTTS at 4476'*. Perforated thru tubing with 1 SPF 4642'-4650' (9 holes). Well flowed clear water** at 12 BPH.
- B. Test Zone #2 - Morrison (3920'-3926' & 4070'-4074')*
Moved RBP up to 4130'* and RTTS up to 3717'*. Pressure tested both to 1000 psi, OK. Perforated through tubing with 1 SPF 4070'-4074' & 3920'-3926'* (12 holes). Well flowed cloudy water** at 30 BPH.
- C. Test Zone #3 - Dakota "E" (3682'-3686' & 3727'-3733')*
Moved RBP up to 3861'* and RTTS up to 3646'*. Pressure tested both to 1000 psi, OK. Perforated through tubing with 1 PSF 3727'-3733' & 3682'-3686'* (12 holes). Swabbed well down in 3 runs. Fluid was entering at the rate of 1000' per hour. Zone made 100% water**.
- D. Test Zone #4 - Dakota "D" (3550'-3558', 3596'-3602' & 3606'-3614')*
Moved RBP up to 3646'* and RTTS up to 3386'*. Pressure tested both to 1000 psi, OK. Perforated through tubing with 1 SPF 3606'-3614', 3596'-3603' & 3550'-3558'* (25 holes). Swabbed well down in 3 runs. Swabbed well once every 30 minutes for 4 hours then collected water sample**.
- E. Test Zone #5 - Dakota "C" (3473'-3499' & 3514'-3531')*
Moved RBP up to 3646'* and RTTS up to 3386'*. Pressure tested both to 1000 psi, OK. Perforated through tubing with 2 SPF 3514'-3531'* and 3473'-3499'* (90 holes). Swabbed and flowed well for three and one half days. Estimate zone capable of producing 460-540 bbls per day, 96% water**.
- F. Test Zone #6 - Dakota "B" (3392'-3397', 3399'-3403' & 3405'-3412')*
Moved RBP up to 3428'* and RTTS up to 3161'. Pressure tested both to 1000 psi, OK. Perforated through tubing with 1 PSF 3405'-3412', 3399'-3403' and 3392'-3397'* (19 holes). Swabbed well down in 3 runs. Waited one hour and found no fluid entry. Acidized zone with 500 gals 15% MCA (acid). Recovered load then 100% water**.
- G. Test Zone #7 - Dakota "A" (3340'-3346' & 3352'-3356')*
Moved RBP up to 3375'* and RTTS up to 3141'*. Perforated through tubing 3352'-3356' & 3340'-3346'* 1 SPF. Swabbed well down and found no fluid entry. Broke down and acidized zone with 1300 gals 15% MCA (acid). Recovered 100% formation water**.
- H. Test Zone #8 - Gallup "B" (2545'-2557' & 2580'-2599')*
Moved RBP up to 2880'* and RTTS up to 2506'*. Pressure tested both to 1000 psi, OK. Perforated through tubing 2545'-2557' & 2580'-2599'* 1 SPF (32 holes). Zone swab tested 100% water**.
- I. Test Zone #9 - Gallup "A" (2384'-2390', 2395'-2400', 2482'-2490' & 2495'-2500')*
Moved RBP up to 2502'* and RTTS up to 2315'*. Pressure tested both to 1300 psi, OK. Perforated through tubing with 1 SPF 2384'-2390'* and 2395'-2400'* (total 13 holes). Swabbed well down and found no fluid entry. Broke down formation with rig pump at 2000 psig. Swabbed well and still no fluid entry. Lowered RBP to 2533'* and RTTS to 2406'*. Pressure tested both to 1200 psi. Perforated through tubing with 1 SPF 2484'-2490'* and 2495'-2500'* (13 holes). Swabbed well down and found no fluid entry. Prepare to P & A.

J. Plugging Operations began 2-10-82 and were completed 2-11-82. Plugged hole as follows:

- Plug #1 - EZ drill retainer at 4590' with 20 sacks of Class "B" Neat below.
- Plug #2 - EZ drill retainer at 3870' with 20 sacks of Class "B" Neat below.
- Plug #3 - EZ drill retainer at 3300' with 50 sacks Class "B" Neat below.
- Plug #4 - EZ drill retainer at 2320' with 35 sacks Class "B" Neat below.
- Plug #5 - 2200' to 2300' with 15 sacks Class "B" Neat.
- Plug #6 - 1250' to 1350' with 15 sacks Class "B" Neat.
- Plug #7 - Perforated 5 1/2" casing with four 0.5" holes at 270', set EZ drill retainer at 260' and pump 10 sacks Class "B" Neat below same.
- Plug #8 - Stung out of EZ retainer at 260' and circulate cement to the surface.

The casing was cut off three feet below ground level and a 4" x 4' dry hole marker was installed.

* All depths were correlated flat to the CNL/FDC log dated 12-28-81.

** See "Result of Water Analysis" for chemical breakdown.

P. O. BOX 1468
MONAHAN, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Sammy N. Morgan LABORATORY NO. 282380
One Security Park - 7200 I-40 West SAMPLE RECEIVED 2-25-82
Amarillo, TX 79106 RESULTS REPORTED 3-2-82

COMPANY Santa Fe Energy Co. LEASE Kin Klizhin #1
FIELD OR POOL Wildcat
SECTION BLOCK SURVEY COUNTY McKinley STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Test zone #1 - Entrada
NO. 2 Test zone #2 - Morrison
NO. 3 Test zone #3 - Dakota "E"
NO. 4 Test zone #4 - Dakota "D"

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0066	1.0031	1.0028	1.0028
pH When Sampled				
pH When Received	7.7	7.4	7.7	8.3
Bicarbonate as HCO ₃	112	454	752	737
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	340	50	30	16
Calcium as Ca	132	20	10	5
Magnesium as Mg	2	0	1	1
Sodium and/or Potassium	1,782	390	434	462
Sulfate as SO ₄	3,558	407	44	24
Chloride as Cl	298	72	220	266
Iron as Fe	0.39	1.4	376	62.4
Barium as Ba	0	0	0	0
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	5,884	1,343	1,461	1,505
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	0.940	6.00	4.90	5.30
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	0	0	0	10
Strontium, as Sr	5.5	0.0	0.0	0.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

P. O. BOX 1466
MONAHAN, TEXAS 79786
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4821

RESULT OF WATER ANALYSES

TO: Mr. Sammy N. Morgan LABORATORY NO. 282380 (pg.2)
One Security Park - 7200 I-40 West SAMPLE RECEIVED 2-25-82
Amarillo, TX 79106 RESULTS REPORTED 3-2-82

COMPANY Santa Fe Energy Co. LEASE Kin Klizhin #1
FIELD OR POOL Wildcat
SECTION BLOCK SURVEY COUNTY McKinley STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Test zone #5 - Dakota "C"
NO. 2 Test zone #5 - Dakota "C" (after 4 days)
NO. 3 Test zone #6 - Dakota "B"
NO. 4 Test zone #7 - Dakota "A"

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0049	1.0033	1.0322	1.0061
pH When Sampled				
pH When Received	8.4	8.3	5.8	5.9
Bicarbonate as HCO ₃	1,159	1,208	476	205
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	26	12	24,400	2,250
Calcium as Ca	10	5	6,400	760
Magnesium as Mg	0	0	2,041	85
Sodium and/or Potassium	1,241	574	4,370	735
Sulfate as SO ₄	87	0	446	71
Chloride as Cl	1,094	149	23,436	2,557
Iron as Fe	27.3	11.7	1,034	300
Barium as Ba	0	0	0	0
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	3,675	1,972	37,169	4,713
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	2.00	4.80	0.214	1.40
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	84	36	0	0
Strontium, as Sr ²⁺	0.0	0.0	21.0	9.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Sammy N. Morgan LABORATORY NO. 282380 (pg. 3)
One Security Park - 7200 I-40 West SAMPLE RECEIVED 2-25-82
Amarillo, TX 79106 RESULTS REPORTED 3-2-82

COMPANY Santa Fe Energy Co. LEASE Kin Klizhin #1
FIELD OR POOL Wildcat

SECTION BLOCK SURVEY COUNTY McKinley STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Test zone #8 - Gallup "B"

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0041			
pH When Sampled				
pH When Received	9.6			
Bicarbonate as HCO ₃	110			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	16			
Calcium as Ca	6			
Magnesium as Mg	0			
Sodium and/or Potassium	734			
Sulfate as SO ₄	861			
Chloride as Cl	202			
Iron as Fe	52.7			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	2.117			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	3.25			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	204			
Strontium, as Sr ³	0.0			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We are not familiar with the circumstances herein, but we do not see any evidence that would be considered significant in indicating natural connate water unless there is a possibility of fresh water. We qualify this in that it would appear that zone #6 (Dakota "B") is quite different, but it has an unusually high calcium and magnesium as compared to the other salts, thereby strongly implying spent acid influence is at least the principal source of the difference.