ENERGY	AND MINERALS DEPA		ÒIL (CONSERVA <mark>I</mark>	lod blai	sion_	· Marie	Form C-101	
<u> </u>	OISTRIBUTION		SAL	Р. О. ВОХ NTA FE, NEW M		<u> [[]</u>	illi	Revised 10	e Type of Lease
SAN	TAFE	11	SAI	VIA PE, NEW IN	લસ			STATE (
U.S.	E	++.][JUN -	[1300		.5. State OII	6 Gas Lease No.
	O OFFICE	11		O!	IL CONSERVA	TION DIV	ISION	mm	mmmm
OPE	APPLICATIO	N FOR PE	PMIT TO	DRILL, DEEPEN,	·				
la. Type	of Work	71 7 511	TOME TO	DRILL, DELI Z.,	, 01() 200 2	JACK		7. Unit Agre	eement Name
	DRILL X] .		DEEPEN T		PLUG B	ACK		
b. Type	of Well		4		SINGLE [8. Farm or L	
OIL WELL 2. Name o	of Operator		CR		SINGLE X		TIPLE 20HE	Sovere	eign 32-6
Sov	ereign Oil (Company			303 530	0-0608		No. 1	
Addres	s of Operator				~	22201		l	nd Pool, or Wildcat
	on of Well	T	Ste 102	2, Boulder,		80301 North		W/C	PC
1, 200-,	UNIT LETT	ER L	LOC	ATED 1730	FEET FROM THE	- INOI CI	LINE		14/14/18/4/4/4/4
AND 9	00 FEET FROM	THE Wes	t LIN	EOFSEC. 9	TWP. 32N	RGE. 6W	V HMPM	MILL	
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		TITITI.	7/////		<u> </u>		Lewis		Rotary
	Tilons (Show whether DF)	, K I, etc.)		& Status Plug. Bond e time	Four	Contractor Corner	îs.		x. Date Work will start approval
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CTI	iffs 2740';	remis o	nare-o	140 .	1 m				* *.
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					F	EB 4-1	983	<i>3)</i>	
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	(This space for	State Use)							
PPROVE							:	DATE	
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OIL CONSERVATION DIVISION

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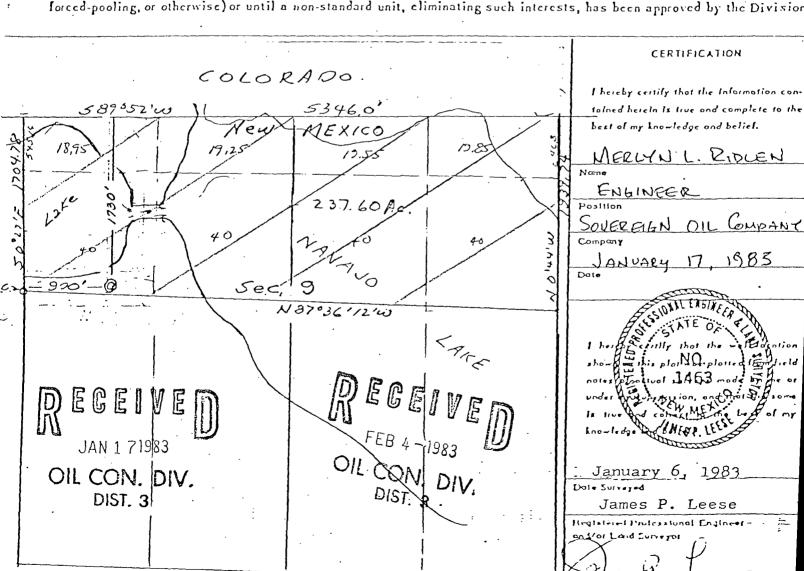
SOVER	REIGN OIL CO).	SOVEREIL	N. 32-6	THE PROMES
Unit Letter	i-ction	Township	Hume	County	
- E	9	32 NORTH	6 WEST	SAN JUAN	COUNTY
· Actual Postage Luci	ation of Well;	. '			
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Cround Level Elev.	Producing For	matto n	Pool		A LESS ISSUED ON THE PROPERTY OF THE PROPERTY
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1 0 11 1	acreace dedicat	ted to the subject we	Il by colored pencil	or backure marke or	the elst below

- interest and royalty).
- 3. Il 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?

Il answer is "yes," type of consolidation - Harrisonal

If answer is "no," list the owners and tract descriptions which have actually been 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 Division.



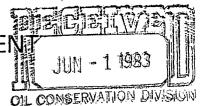


STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMEN

OIL CONSERVATION DIVISION

January 28, 1983



SANTA FE POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

TONEY ANAYA GOVERNOR

> Sovereign Oil Company 6395 Sunpark Drive Penthouse Boulder, Colorado 80301

Attention: Merle Ridlen

Administrative Order NSP-1329-A

Gentlemen:

Reference is made to your application for a 118.2-acre non-standard proration unit consisting of the following acreage in the Pictured Cliffs Pool:

SAN JUAN COUNTY, NEW MEXICO
TOWNSHIP 32 NORTH, RANGE 6 WEST, NMPM
Section 9: NW/4

It is my understanding that this unit is to be dedicated to your 32-6 Well No. 1 to be located at a surface location of 900 feet from the West line and 1730 feet from the North line to the Pictured Cliffs at 900 feet from the West line and 1500 feet from the North line of said Section 9.

By authority granted me under the provisions of Rule 104 D II, the above non-standard proration unit is hereby approved.

That NSP-1329 is hereby superseded.

JOE D. RAMEY,

Director

Sincerel

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
Minerals Management Service - Farmington

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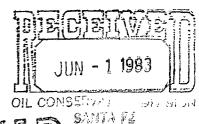
FEB 7-1983

OIL CON. DIV.



Sovereign Oil Company

MCMLXXX



DEGELVED

APR 18 1983

April 14, 1983

New Mexico Oil & Gas Commission Mr. Frank Chavez 1000 Rio Brazos Rd. Aztec, New Mexico 87401 OIL CON. DIV. DIST. 3

Subject: Directional Drilling

Report

Dear Mr. Chavez:

Enclosed please find the Eastman Whipstock directional drilling report you mentioned was mission from our files on the Sovereign Navajo Lake No. 9-1 well.

I am preparing the corporate papers to qualify Sovereign in the State of New Mexico.

Also, I'll send the casing pressure data in a day or so.

Yours sincerely,

M. R. McCoy President

MRM:kaa

Enclosure

STATE OF NEW MEXICO	,
ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION DISTRIBUTION P. O. BOX 2088	Form C-103
SANTA FE, NEW MEXICO 875017	Revised 10-1-76
U.S.C.S. LAND OFFICE OPERATOR JUN - 1 1983	State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WEOUSCONSERVATION DIVISION (DO NOT USE THIS FORM FOR PROPOSALS TO DAILL OR TO DEEPEN OF PLUG BACK TO'A DIFFERENT AFFERFORM. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PHOPOSALS.)	
OIL GAS X OTHER-	7. Unit Agreement Name
Name of Operator Sovereign Oil Company	8. Form or Lease Name Navajo Lake
. Address of Operator 7490 Clubhouse Rd. Suite 102 Boulder, Colo. 80301	9, Well No. 32-6 No. 1
Location of Well UNIT LETTER 1730 FEET FROM THE North LINE AND 800' FEET FROM	10. Field and Pool, or Wildcan Ignacio Blanco
THE West LINE, SECTION 9 TOWNSHIP 32N RANGE 6W NMPM.	
	12. County San Juan
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK COMMENCE DRILLING OPNS. PULL OR ALTER CASING CASING CASING CASING TEST AND CEMENT JOB X OTHER	-: PLUG AND ABANDONMENT
7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including e work) see Rule 1103. On January 23, 1983, 256' of new 8 5/8" 24#/ft casing was with 250 sx. of Class "G" cement with 100% returns. After 12 he pressure tested to 1500#for 15 minutes before drilling out.	set and cemented
	711 DI2.
8. I hereby certify that the information above is true and complete to the best of my knowledge and belief. 16420 TITLE Operations Engineer	DATE <u>4/19/83</u>

TITLE_

APPROVED BY

APPROVAL IF ANY:

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

N 32 SOUTH DIVISION
OIL CONSESSANT ADDIVISION

CASE NO. 7816 Order No. R-7242

APPLICATION OF SOVEREIGN OIL CO. FOR DIRECTIONAL DRILLING, UNORTHODOX LOCATION, COMPULSORY POOLING, AND A NON-STANDARD PRORATION UNIT, SAN JUAN COUNTY, NEW MEXICO.



ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 16, 1983, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 29th day of March, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Sovereign Oil Co., seeks authority to directionally drill its proposed 32-6 Well No. 1 from a surface location 1730 feet from the North line and 900 feet from the West line of Section 9, Township 32 North, Range 6 West, San Juan County, New Mexico, by kicking off from the vertical at a depth of 1500 feet and drilling in a northerly direction in such a manner as to penetrate the Pictured Cliffs formation at an unoxthodox location within 50 feet of a point 1500 feet from the North line and 900 feet from the West line and to penetrate the Mesaverde formation at an unorthodox location no nearer than 1100 feet from the North line and no nearer than 700 feet from the West line, all in said Section 9, dedicating the N/2 of said Section 9 to the well.
- (3) That the applicant further seeks an order pooling all mineral interests in the Mesaverde and Pictured Cliffs formations underlying a 237.6-acre non-standard proration unit

Case No. 7816 Order No. R-7242

comprising the N/2 of said Section 9. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

- (4) That at the time of the hearing the applicant requested and received approval to dismiss those portions of this application seeking compulsory pooling and directional drilling to the Mesaverde formation.
- (5) That the unorthodox surface location and directional drilling are necessary in that a standard well location lies below the high water mark within Navajo reservoir.
- (6) That the non-standard prortion unit is the result in variation in the legal subdivision of the U. S. Public Land Surveys.
- (7) That the applicant should be required to determine the subsurface location of the bottom hole and of the hole within the Pictured Cliffs formation by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.
 - (8) That the application should be approved.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Sovereign Oil Co., is hereby authorized to directionally drill a well from an unorthodox surface location 1730 feet from the North line and 900 feet from the West line of Section 9, Township 32 North, Range 6 West, NMPM, San Juan County, New Mexico, vertically to an approximate depth of 1500 feet and then directionally to a bottom hole location in the Pictured Cliffs formation within 50 feet of a point 1500 feet from the North line and 900 feet from the West line of said Section 9.
- (2) That a 237.6 acre non-standard gas proration unit consisting of the North half of said Section 9 to be dedicated to said directionally drilled well, is hereby approved for the Pictured Cliffs formation.

PROVIDED HOWEVER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot

Case No. 7816
Order No. R-7242

points not more to cause the surveying report directly to Box 2088, Santa Footify the Division time said survey

(3) That Footivision Rule 1105 vertical depth in hole location of the seeking compulsory

points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Aztec District Office of the date and time said survey is to be commenced.

- (3) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths, and the bottom hole location of the well.
- (4) That those portions of the subject application seeking compulsory pooling in the Pictured Cliffs and Mesaverde formations and for directional drilling to the Mesaverde formation are hereby dismissed.
- (5) That jurisdiction of this cause, is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY,

Director

SEAL



GOVERNOR

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

> 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

January 24, 1983



Sovereign Oil Company 7490 Clubhouse Road, Suite 102 Boulder CO 80301

Re: Sovereign 32-6 # 1, E-9-32N-6W

Dear Sirs:

The referenced well needs to have a new case docketed for the directional drilling, nonstandard location, and nonstandard proration unit (for the Pictured Cliffs), at the new location, therefore we are returning the Application for Permit to Drill for you to outline the directional drilling in the proposed casing and cement program.

The APD cannot be approved without a division order allowing the direction drilling at a specific location. The bond must show this exact location also.

If you have any questions please call this office.

Yours truly,

Jeff A. Edmister

Geologist II

JAE:gc

Enc.

cc: Operator file

Well file



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

TONEY ANAYA

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

OIL CONSERVATION DIVISION

SANTA FF

April 29, 1983

Mr. Perry Pearce Oil Conservation Division P.O. Box 2088 Santa Fe NM 87501

Re: Forced Plugging Cases

Dear Perry:

Please docket the following cases:

(1) A case calling Red Mountain Associates and United States Fidelity and Guaranty to appear and show cause why their below listed wells in McKinley County should not be plugged and abandoned in accordance with a Division approved plugging program.

All wells in Township 20 North, Range 9 West

Chaco Wash Mesaverde Pool-Santa Fe Pacific lease

#101, #103, #104, #110, #113 all in Unit P of Section 21; #106 in Unit M of Section 22; #114, #116, #117 in Unit N of Section 22. State Lease #1, #6, #7, #8, #11, #12, #20, #21 in Unit A of Section 28; #2, #3, #9, #10, #13, #22, #23, #24, #25, #26, #27, #100 in Unit B of Section 28; and #100 in Unit G of Section 28.

Red Mountain Menefee Pool-Santa Fe Pacific Lease

#2, #3, #4, #9, #23, #28, #36, #38, #47 in Unit O of Section 20; #24, #I-l2, #I-l0 in Unit P of Section 20; #I-7, and #I-8 in Unit A of Section 29; #33, #34, #35, #42, #43, #I-5, #I-22, #1, #20 in Unit B of Section 29; #I-l3 and #I-21 in Unit C of Section 29; #I-20 in Unit F of Section 29.

Perry Pearce April 29, 1983 Page two

- (2) A case calling Sovereign Oil Company and Allied Fidelity Insurance Company to appear and show cause why the Sovereign 32-6 #l in Unit E, Section 9, Township 32 North, Range 6 West, should not be plugged and abandoned in accordance with a Division approved plugging program.
- (3) A case calling Petro-Lewis Corporation, Dyna Ray Oil and Gas Company, Inc., and Floyd J. Ray, to appear and show cause why the Earnhardt #1 in Unit G, Section 35, Township 24 North, Range 1 West, should not be plugged and abandoned in accordance with a Division approved plugging program.

Yours truly,

Frank T. Chavez
District Supervisor

FTC/lh

SANTA FE, NEW ME KEYO 87501 JUN - 1 1983 J	
OIL CONSERVATION DIVISION	ا المعامر المسام المارا
P. O. BOX 2088 3 2 1	Form C-103 Revised 10-1-
SANTA FE, NEW MEXICO 87501	
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LAND OFFICE	State Clif Cas Leave Vis
UIL CONSERVATION	, 3,,,,3,9,14
SUNDRY NOTICES AND REPORTS ON WELLS	
	•
2. Name of Operator	
Sovereign Oil Company 3. Address of Cherotor	
4. Location of Well	10. Field and Pool, or Wildcat
UNIT LETTER 1730 FEET FROM THE NORTH LINE AND 900!	Wildcat
vor .	
THE West LINE, SECTION 9 TOWNSHIP 32 N RANGE 6 W	NMPM.
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
6157' GL 6169' KB	San Juan
• • •	
OTHER	
	, including estimated date of starting any proposes
8 5/8" 24#/ft k-55 casing at 260' KB. Drill 7 7/8	3" hole to 3182' KB
with fresh water gel mud system. Using Dyna-Drill	to whipstock well
	
	.50 SX Class "B" cement
W/4% gel. Plug down at 1:30 A.M. 1/30/83.	
	BRARINES
	D RREINFU
· · · · · · · · · · · · · · · · · · ·	FEB 1 4 1983
	OIL CONLIDIV
	DIST. 3
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
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*10x10	eer DATE 2/6/83
	7

CONDITIONS OF APPROVAL, IF ANY:

DIVISION APPROVED PLUGGING PROGRAM

Sovereign Oil Company Navajo Lake 32-6 #1, E-9-32N-6W

Downhole Equipment

- 8 5/8" surface pipe at 256'
- 7 7/8" hole to 3182'
- 4 1/2" 11.6# casing at 3180'
- 1. Go in hole with tubing to 2800' and set a cement plug 2800' to 2550' inside casing. Come out of hole with tubing.
- 2. Perforate casing at 1450' and set a cement plug 1450-1350 in and outside casing. Come out of hole with tubing.
- 3. Wait on cement at least 6 hours. Go in hole with tubing and tag plug #2. If cement is above 1370' go to step 4. If not fill to 1350. Come out of hole with tubing.
- 4. Perforate casing at 300' and set a cement plug 300'-200' in and outside casing.
- 5. Set a top plug and erect a dry hole marker with at least 10 sacks of cement.
- 6. Fill pits, clean and level location, pull anchors or cut cables at least one foot below ground leve.

All plugs will be with neat cement containing no more than 3% CACL2.

 $\underline{\text{Note}}$: This is a directionally drilled hole and these are $\underline{\text{measured}}$ depths.

549 Clashon Kd. 1549 Clashon Kd.

Vaniture 6395 Duymak



PEGEIVED APR 1 8 1983 OIL CON. DIV. DIST. 3

SOVEREIGN DIL COMPANY
COMPANY
NAVAJO LAKE NO.9-1
WELL NAME
SAN JUAN COUNTY, NEW MEXICO
LOCATION

Surface location 1930' FNL; 900' FWL Botton hobboution 1432' FNL; 872' FWL



REPORT of SUB-SURFACE DIRECTIONAL SURVEY

SOVEREIGN DIL COMPANY
COMPANY
NAVAJO LAKE NO.9-1
WELL NAME
SAN JUAN COUNTY, NEW MEXICO
LOCATION

JOB NUMBER RM183-D1274

TYPE OF SURVEY
MAGNETIC SINGLE

DATE
31 JANUARY 1983

SHOT

SURVEY BY Lynn bader

OFFICE ROCKY MOUNTAIN COMPLETION REPORT LOCATION: SAN JUAN COUNTY, NEW MEXICO FILE NO.: A2-139, FL7-09 DATE: 26 JANUARY 1983 JOB NO.: RM183-D1274 WELL NAME: NAVAUD LAKE NO.9-1 SOVEREIGN OIL COMPANY

TYPE: MAGNETIC SINGLE SHOT DIRECTIONAL DRILLER: LYNN BADER

COMPUTER OPERATOR: STEVE THURSTON DECLINATION:

RELATED FILES: A2-124

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL FOR MIN. W. DIRECTION: N O DEG. "O MIN. W. T. C. C. COMPANY

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

OVEREIGN OIL ELL NAME: NAV	OIL COMPANY NAVAJO LAKE NO SAN JUAN COUNTY	NO.9-1	COMPLETI	ETION REPORT		COMPUTAT TIME 13:46:07 31	TATION DATE 31-JAN-83	PAGE NO. 1
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OVEREIGN OIL COMPANY ELL NAME: NAVAJO LAKE NO.9-1 OCATION: SAN JUAN COUNTY, NE	. COMPANY IVAJO LAKË I JUAN COU	OVEREIGN OIL COMPANY ELL NAME: NAVAJO LAKE NO.9-1 OCATION: SAN JUAN COUNTY, NEW MEXICO	•	COMPLETION REPORT		COMPUTATION TIME DATE 13:46:07 31-JAN-83	PAGE NO 2
MEASURED DEPTH FEET	DRIFT ANGLE D N	DRIFT DIRECTION D M	COURGE LENSTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULA'R COORDINATES FEET	DOGLEG SEVERITY DG/100FT
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13:46:07

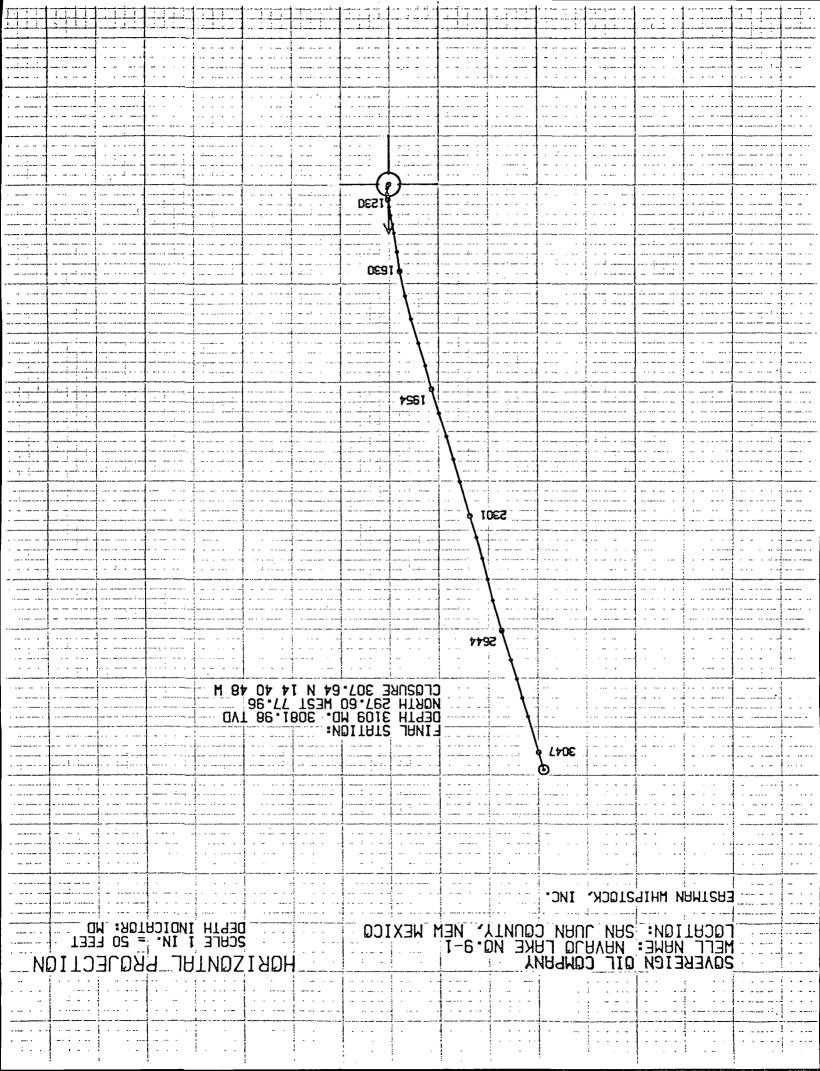
31-JAN-83 FILE NUMBER:

SOVEREIGN OIL COMPANY WELL NAME: NAVAJO LAKE NO.9-1 LOCATION: SAN JUAN COUNTY, NEW MEXICO

COMPLETION REPORT

ONVERSATIONAL SURVEY PROGRAM VOZ.11





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