

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

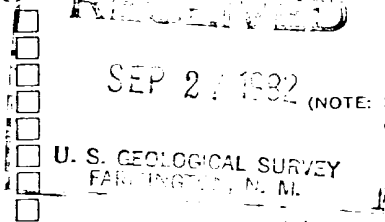
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐  
2. NAME OF OPERATOR  
SUPERIOR OIL COMPANY  
3. ADDRESS OF OPERATOR  
P.O. DRAWER "G", CORTEZ, COLORADO 81321  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1850' FSL, 980' FEL, Sec. 35  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:  
TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☒  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) \_\_\_\_\_

SUBSEQUENT REPORT OF:



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE  
JICARILLA 55  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
JICARILLA APACHE  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
JICARILLA 55 #2 Chacoan Dakota  
9. WELL NO.  
#2  
10. FIELD OR WILDCAT NAME  
CHACON DAKOTA  
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
SEC. 35, T23N, R3W  
12. COUNTY OR PARISH  
SANDOVAL  
13. STATE  
NEW MEXICO  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7259' G. L.

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. MIRU.
2. POH w/ production equipment.
3. RIH w/ RBP, retrieving head, packer and tubing.
4. Set RBP at 7035'. PU and set packer. Pressure test tubing and RBP. Bleed down and pressure test casing/tubing annulus.
5. If casing leak is indicated, proceed w/ isolation of casing leak.
6. Depending on pressure test results, either squeeze casing leak and drill out; or squeeze perfs, drill out, reperforate and stimulate.
7. RDMO.

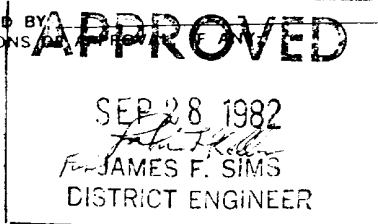
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED James S. Andres TITLE Petroleum Engineer DATE 9-16-82  
JAMES S. ANDRES

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS \_\_\_\_\_



\*See Instructions on Reverse Side

NMOCC

CHACON DAKOTA NO. 2  
CHACON DAKOTA FIELD  
SANDOVAL CO. NEW MEXICO  
(SUPERIOR WI - 100%)

JUSTIFICATION

Attached is an AFE #2DY380 for \$50,000 to locate the source of water production. Based on a 30 BOPD increase and an oil price of \$32.00 per barrel (before WPT), this investment will have a BFIT payout of 2 months.

The Chacon Dakota #2 was initially completed in the Dakota "A" and "B" intervals and fracture stimulated in a single stage. After stimulation, the well flowed 150 BOPD, 16 BWPD and 237 MCFD. Since then Zone "B" proved to be wet and was subsequently squeezed.

Upon restoring the well to production, production ran about 80 BOPD then began declining to 60 BOPD. At that time (April, 1982), a plunger lift was installed in an attempt to improve production. The plunger lift system proved ineffective. In addition, the well no longer flowed continuously, and a 228D-246-86 pumping unit with EA-30 (Ajax) prime mover was installed.

The well is currently producing 100% water, about 135 BWPD. Due to the increase in water production, two possibilities are taken into consideration: (1) a casing leak and/or (2) formation communication. In order to minimize water production once the water source is located the procedure will be to squeeze off the source.

CHACON DAKOTA NO. 2  
CHACON DAKOTA FIELD  
SANDOVAL CO. NEW MEXICO  
(SUPERIOR WI - 100%)

PROCEDURE

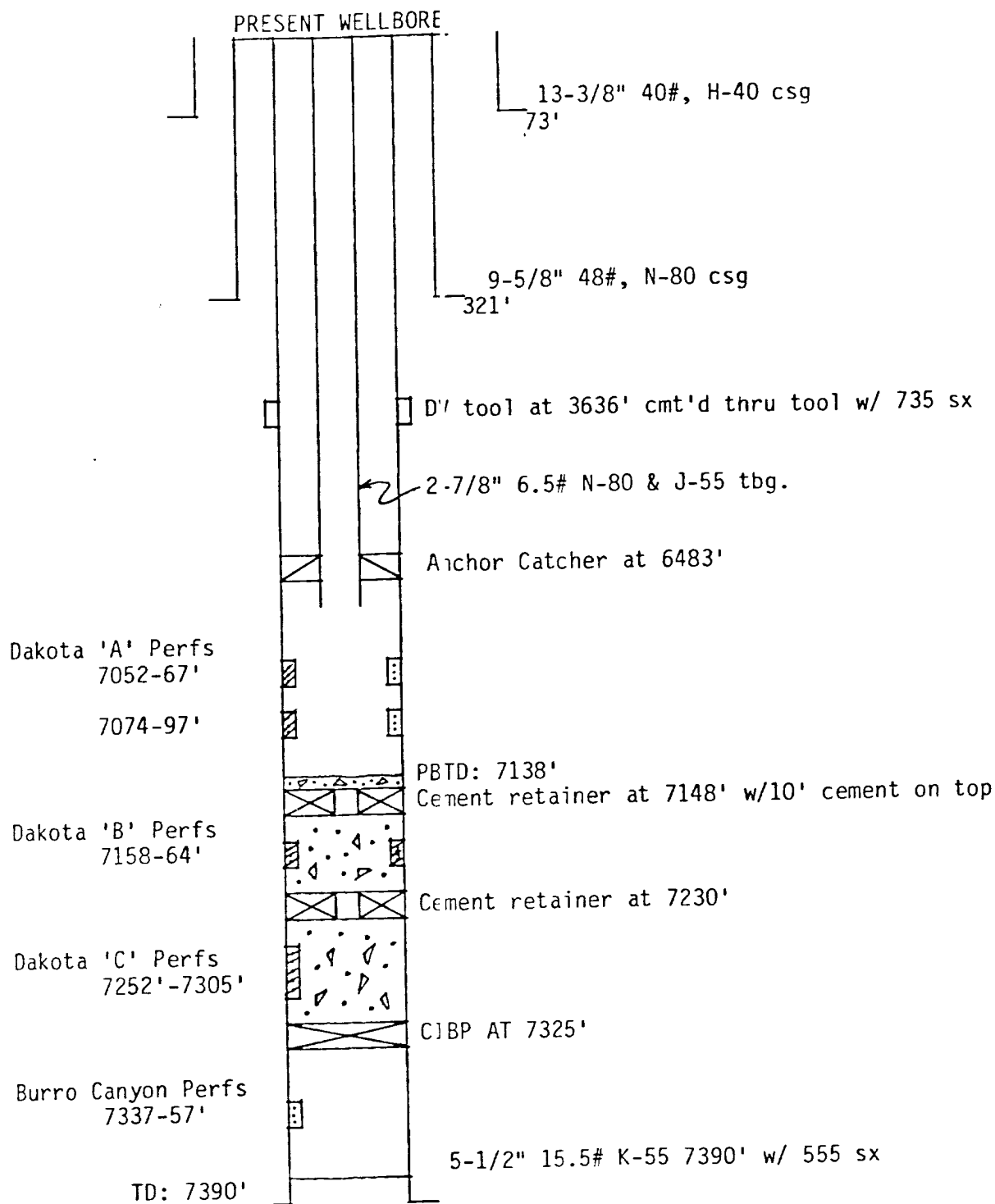
1. MIRU workover rig. POH w/ rod string and 2-1/2" X 1-1/2" X 18' Loc-No pump.
2. NU and test BOP's. POH w/ perf'd sub, anchor-catcher, seating nipple and 2-7/8" tubing.
3. RIH w/ Model 'C' retrievable bridge plug, retrieving head, Model 'C' full-bore retrievable cementer, and 2-7/8" tubing.
4. Set RBP at 7035'. PU w/ packer and pressure test tubing and RBP to 1500 psi. Bleed down and pressure test casing/tubing annulus to 1500 psi. If no pressure loss go to step (8).
5. If casing leak is indicated, procede w/ isolation of casing leak.
6. Retrieve bridge plug. POH w/ RBP, retrieving head, packer and 2-7/8" tubing.
7. Squeeze casing leak and drill out. Go to step (9).
8. Squeeze Dakota 'A' perms, drill out, reperforate and stimulate.
9. Put well back on production.

Approved: *O.L. Miller*

Date: *9-22-82*

*JSA*  
JSA/1h

CHACON DAKOTA No. 2  
 CHACON DAKOTA FIELD  
 SANDOVAL CO. NEW MEXICO  
 (SUPERIOR WI - 100%)



THE SUPERIOR OIL COMPANY  
**AUTHORIZATION FOR EXPENDITURE**

DATE 9-10-82	REPORTING UNIT PRODUCTION DEPARTMENT - DENVER DISTRICT	A.F.E. NO. 2DY380
PURPOSE: LOCATE SOURCE OF WATER PRODUCTION.		<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> SUPPLEMENT
WELL, LEASE, LOCATION, ETC. CHACON DAKOTA #2, CHACON DAKOTA FIELD, SANDOVAL COUNTY, NEW MEXICO		

**PROJECT DATA**

AUTHORITY IS HEREBY REQUESTED TO  REDUCE WATER PRODUCTION BY EITHER:			
(1) REPAIRING SUSPECTED CASING LEAK, (2) PREVENTING FORMATION COMMUNICATION BY: 1. SQUEEZING PERFORATIONS 2. REPERFORATE AND STIMULATE			
START DATE: 9-82	COMPLETE DATE: 9-82	THIS A.F.E. AMOUNT ..... \$ 50,000	
<input checked="" type="checkbox"/> OPERATED <input type="checkbox"/> NON OPERATED		PREVIOUS A.F.E.'S ISSUED .....	
		TOTAL PROJECT COSTS ..... \$ 50,000	

**BUDGET DATA**

BUDGET CATEGORIES	AMOUNT	REF. NO.	STATUS
1. WELL RECONDITIONING	50,000		<input type="checkbox"/> BUDGETED <input checked="" type="checkbox"/> NOT BUDGETED
2.			<input type="checkbox"/> BUDGETED <input type="checkbox"/> NOT BUDGETED

A.F.E. ANALYSIS.	GROSS	NET
CASH OUTLAY .....	\$ 50,000	\$ 50,000
ON HAND/TRANSFERS .....		
TOTAL A.F.E. AMOUNT .....	\$ 50,000	\$ 50,000

**PARTICIPANTS DATA**

PARTICIPANTS	PERCENTAGE	WELL COSTS		OTHER PROJECTS
		ABANDONED	COMPLETED	
SUPERIOR OIL	100%			\$50,000

**APPROVAL DATA - SUPERIOR**

REQUESTED BY: JAMES S. ANDRES <i>James S. Andres</i>	TITLE/DEPT. PETROLEUM ENGINEER	DATE: 9-10-82
REVIEWED BY:	TITLE/DEPT.	DATE:
APPROVED BY:	TITLE/DEPT.	DATE:
W. L. MILLER <i>W. L. Miller</i>	PRODUCTION SUPERVISOR	9-22-82
K. R. JOHNSON <i>K. R. Johnson</i>	CORTEZ SUBAREA SUPERVISOR	
C. L. HILL <i>C. L. Hill</i>	PRODUCTION SUPERINTENDENT	

**APPROVAL DATA - PARTICIPANT**

APPROVED BY:	TITLE/COMPANY:	DATE:
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## REMEDIAL COST ESTIMATE

DATE: 9-10-82

WELL NAME LEASE

A F E NO.

CHACON DAKOTA #2, CHACON DAKOTA FIELD, SANDOVAL COUNTY, NEW MEXICO 2DY380

☒ Reconditioning☐ Wireline Zone Change☐☐ M & R Subsurface☐ Abandonment

CO	DIV	COST CENTER	NE
			87

Product Intent:

☒ - Oil☐ - Gas☐

Acct.				
F/C				
REMEDIAL COSTS-INTANGIBLE		(Account 241)		
08	Location, Roads, or Canals			
24	Move In, Move Out			
34	Daywork	8 Days @	2000 /Day	\$16,000
35	Swabbing/Coiled Tbg.	Days @	/Day	
17	Perforating & Cased Hole Logging			4,000
19	Cement, Cement Services, and Accessories			10,000
26	Stimulation - Acid			5,000
26	- Frac			
50	Gravel Pack/Sand Control (Excludes Screen/Liner)			
40	Completion Fluids/Mud			
16	Cased Hole Testing			
23	Equipment and Tool Rental			5,000
51	Fishing Tools Services			
09	Transportation (Land, Air)			2,000
10	Transportation (Marine)			
39	Fuel and Water			
27	Tubular Inspection			
06	Labor and Supervision			2,000
30	Miscellaneous			
	Contingency			5,000
Subtotal Intangible				
TANGIBLE		(Account 240)		
05	Tubing			
05	Tubing			
07	Add'l. Wellhead (Xmas Tree, Etc.)			
01	Downhole Equipment (Pkrs., Acc., Screens, Etc.)	CIBP		1,000
Subtotal Tangible				
TOTAL COMPLETION COST				\$50,000

WELLCHACON DAKOTA #2

FIELDCHACON DAKOTA

DATE9-13-82

OBJECTIVELOCATE SOURCE OF WATER PRODUCTION

PRODUCTION AREACORTEZ

COUNTY, STATESANDOVAL CO.

FORMATIONDAKOTA "A"

MECHANICAL DATA

DATUM:KB - 14.6' ABOVE G.L.

PBTD:7138'

TD:7390'

BHP:

BHT °F:

ANNULAR FLUID:

CASING DATA										
STRING	OD	#/FT	GRADE	DEPTH	LENGTH	CONNECTION	ID	BURST	COLLAPSE	TOC
CCND	13-3/8"	48	H-40	73'	73'	ST&C	12.559"	1730	770	SURF
SLRF	9-5/8"	40	N-80	321'	321'	ST&C	8.679"	5750	3090	SURF
PROD	5-1/2"	15.5	K-55	7390'	7390'	8rd	4.825"	4040	4040	

TUBING DATA									
STRING	OD	#/FT	GRADE	DEPTH	LENGTH	CONNECTION	ID	BURST	COLLAPSE
PROD	2-7/8	6.5	N-80	6522'	6522'	8rd	2.441"	7260	7680

NIPPLES/COUPLINGS						
DEPTH						
TYPE						
PROFILE						
ID						

PACKER DETAILS			SEAL BORE EXTENSION		
DEPTH			LENGTH OF SEALS		
TYPE			REMARKS		
BORE					
RELEASING					
METHOD					

PERFORATIONS			HOLES/FT.	STATUS
DEPTH				
	7052 - 67'		7	OPEN
	7074 - 97'		12	OPEN

ARTIFICIAL LIFT:228D - 246 - 86 PUMPING UNIT WITH EA - 30 (AJAX) PRIME MOVER

CURRENT STATUS:PRODUCING ABOUT 135 BWPD.

REMARKS:ROD STRING:

98-7/8", S-87

161-3/4", S-87