Form approved. Budget Bureau No. 42-R1425.

#### UNITED STATES DEPARTMENT OF THE INTERIOR

APT 30-045 - 22029
5. LEASE DESIGNATION AND SERIAL BO.

GEOLOGICAL SURVEY							86410 NOO-C 377			
APPLICATION	N FOR PERM	IIT TO DRILL, I	DEEPE	N, OR PI	LUG B	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME		
R. TYPE OF WORK  DR  b. TYPE OF WELL	ILL 🖾	DEEPEN !		PLU	IG BAC	ж 🗆	Navajo 7. UNIT AGREEMENT	NAME		
OIL G	VELL X OTHI	er		NE X	MULTIPI Zone		8. FARM OR LEASE N.	AME		
NAME OF OPERATOR					· · · · · · · · · · · · · · · · · · ·		Navajo			
Union C	il Company o	of California		· · · · · · · · · · · · · · · · · · ·	·		9. WELL NO.	•		
	0600		0601				5 (E18) 10. FIELD AND POOL, OR WILDCAT			
	Sox 2620 - Ca	asper, WY 8	2601	tata requiremen						
At surface		_	m any s	cate requiremen	its.~)		Basin Dakot			
	FNL & 1150	, kmn		• .			11. SEC., T., R., M., OR AND SURVEY OR	REA		
At proposed prod. zo: Dakot						E	Sec. 18, T.25	N. R. 10W.		
<del>-</del>		NEAREST TOWN OR POS	T OFFICE	•			12. COUNTY OR PARIS	•		
24 miles so	outh of Bloom	nfield, New Me	xico				San Juan	New Mexico		
DISTANCE FROM PROP- LOCATION TO NEARES PROPERTY OR LEASE	OSED* T Line, FT.	1150	16. NO	. OF ACRES IN 1	LEASE		F ACRES ASSIGNED IIS WELL	3.99		
(Also to nearest dr)	POSED LOCATION®		1	OPOSED DEPTH	<del></del>	20. ROTAR	Y OR CABLE TOOLS	-		
TO NEAREST WELL, I	orilling, compl <b>eted</b> , ns lease, pt. None	on Lease	١.	6300°			Rotary			
ELEVATIONS (Show wh	ether DF, RT, GR, et	kc.)		, III - II		*** · · · · · · · · · · · · · · · · · ·	22. APPROX. DATE W	ORK WILL START		
	6482' G.L.	<u> </u>	.*•	·			4-23-76			
		PROPOSED CASI	NG AND	CEMENTING	PROGRA	M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DE	PTH		QUANTITY OF CEMI	INT		
12-1/4"	8-5/8" 244		#	750 °			300 sacks or to surface			
7-7/8"	5-1/2"	15.5	lŧ	630	0'	400 s	sacks			
			. ]							
PROPOSED PRO	GRAM:				•					
Log and if p	roduction is 2-3/8" tubin	50. Run and sindicated, rang.	un an	d cement	5-1/2'	casin	g. The well	will be com-		
ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM drill or deepen direc	is not dedicated: : If proposal is to deep ctionally, give pertinent	en or pl	iug back, give d	ata on pre	DIST escriprodu	ctive some and propos			
BIGNED	1 Ladd	g add. Jr. ***	LE D	istrict D	rillir	ng Supt	• DATE	-2-76		
(This space for Fede	ral or State office us	se)								
PERMIT NO.				APPROVAL DATE .						
								٠.		
APPROVED BY	· · · · · · · · · · · · · · · · · · ·	TIT	LE				DATE	<del></del>		
CONDITIONS OF APPROV	'AL, IF ANY :	•								

\*See Instructions On Reverse Side

Horo cross of dominants

# NEW MEXICO OIL CONSERVATION COMMISSION . WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

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

Operator	·		Lease	or the Beetlon.	1,11,11
<u>-</u>	1 Company of	California	Navajo		Well No. (E18)
Union Oil Company of Unit Letter Section		Township	Range	County	
Ε	18	25 North	10 West	San Juar	· 1
Actual Footage Loc	ation of Well:				
1500	feet from the	North line and	···	eet from the West	line
Ground Level Elev. 6482	Producing For Dake		Pool Basin Dal	kota	Dedicated Acreage:  N/318.99
	<u>-</u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·	/ Acres
1. Outline in	e acreage dedica	ted to the subject w	ell by colored pencil	or hachure marks on t	he plat below.
interest ar	id royalty).	•	- · · · · - · · · · · · · · · · · · · ·		thereof (both as to working  f all owners been consoli-
dated by c Yes  If answer this form is	ommunitization, u  No If ar is "no;" list the	nitization, force-pool uswer is "yes;" type owners and tract des	ing. etc? of consolidation	(SEE REVERSE SIDE	ated. (Use reverse side of
- No allowat forced-pool sion.	le will be assigned ing, or otherwise)	ed to the well until al or until a non-standa	l interests have been d unit, eliminating s	consolidated (by conuch interests, has been	nmunitization, unitization, n approved by the Commis-
W.I. Owner Royalty In	J500 - Unic sterest - Nava otted - 158.9	ajo Royalty	RECEIVAGE APR 8 1976 OIL CON COMDIST 3	Name  Position  District  Company  Union Company  U	selvity that the well-location this plat was ploned from field actual surveys make by me or supplied of any that the same and correct to the beat of my local holies.

Union will Conquery of Callifornia

San Juan

10 West

25 Forth

51

1000

1150

iditro 1

(Oct

6462

Union owns W.I. under both tracts and plans to communitize the  $N_2^1$  of Section 18, Township 25 North, Range 10 West after the well is drilled.

31 **.**023

Harto 22, 1976

Surf.

#### NAVAJO NO. 5-E18 SAN JUAN COUNTY NEW MEXICO

#### 12-POINT SURFACE USE PLAN

- 1. The proposed location is approximately 6 miles west of Huerfano Trading Post and N.M. Highway No. 44.
- 2. The access road to the location will be approximately 2700' long and will branch off the location of Navajo No. 8-L18 (See attached map.). Road construction will be kept to a minimum. The access road will consist of only blading away existing vegetation. Existing roads will be used wherever possible. In event the well is a commercial producer, the access road will be improved in whatever manner is customary in the area.
- 3. The location is 1500' FNL & 1150' FWL of Section 18, Township 25 North, Range 10 West, San Juan County, New Mexico, as shown on the attached map, with other wells within 1 mile.
- 4. Lateral roads to other locations are depicted on the attached map. No new roads will be constructed.
- 5. The flow line to the subject well will be laid to a tank battery location on the well location.
- 6. Water will be hauled to the location from Giegus Wash at the Carson Trading Post, located approximately 13 miles northwest of the wellsite.
- 7. Waste material and cuttings will be disposed of in the reserve pit and garbage will be disposed of in a small burn pit.
- 8 & 9. No camps or airstrips will be constructed.
  - 10. A diagram of the drilling rig is attached.
  - 11. The surface will be restored as nearly as possible to its original condition. Top soil will be stockpiled and later distributed evenly over the site. The site will be reseeded with a recommended seed mixture.
  - 12. The topography is rolling sand hills sparsely covered with sagebrush and native grass. The location will require a cut of 4 to 6 feet on the south side and a fill of 2 to 4 feet on the north side of the location. The subsoil that is cut from the location will be used as fill on the low areas of the location.

ONL CON

Union Oil Company of California DLE/4-1-76

#### NAVAJO WELL NO. 5-E18 SAN JUAN COUNTY NEW MEXICO

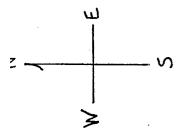
#### ADDITIONAL INFORMATION

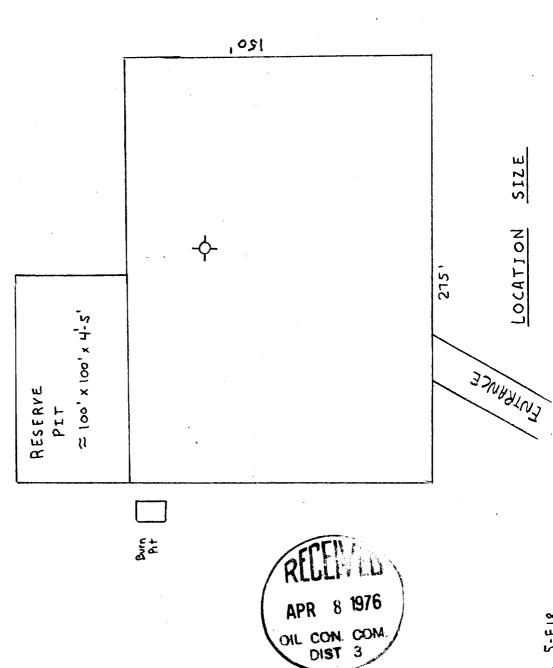
- 1. Surface Casing: 8-5/8", 24#, K-55, New.
- 2. See attached well head schematic.
- 3. No intermediate casing will be run.
- 4. See attached schematic of BOP and manifold. BOP will be operationally tested daily and recorded.
- 5. Auxiliary equipment to consist of a kelly cock and a safety valve that can be stabled into the string when the kelly is not in service.
- 6. Maximum anticipated bottom hole pressure is 2200 psi.
- 7. Drilling fluid will be water and native clay to approximately 5600', then fresh water with commercial bentonite, barite and chemical added to maintain a 9.2#/gallon mud weight to total depth.

APR 8 1976

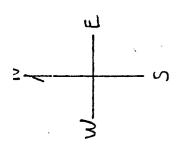
OIL SON COM
DIST

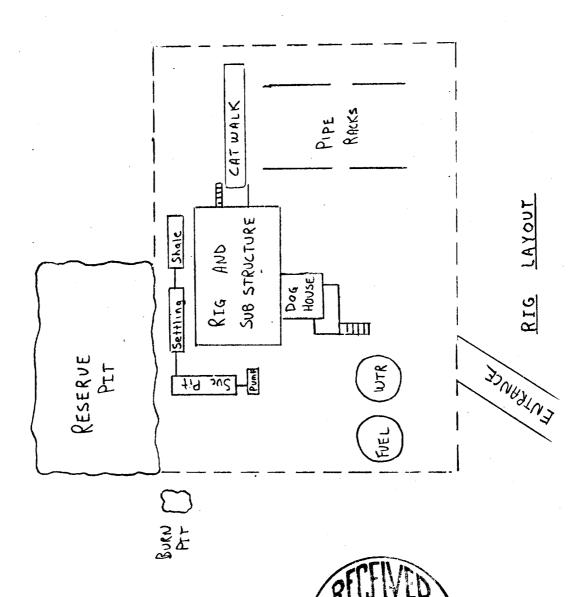
Union Oil Company of California





Navajo No. 5-E18 DE/4-1-76



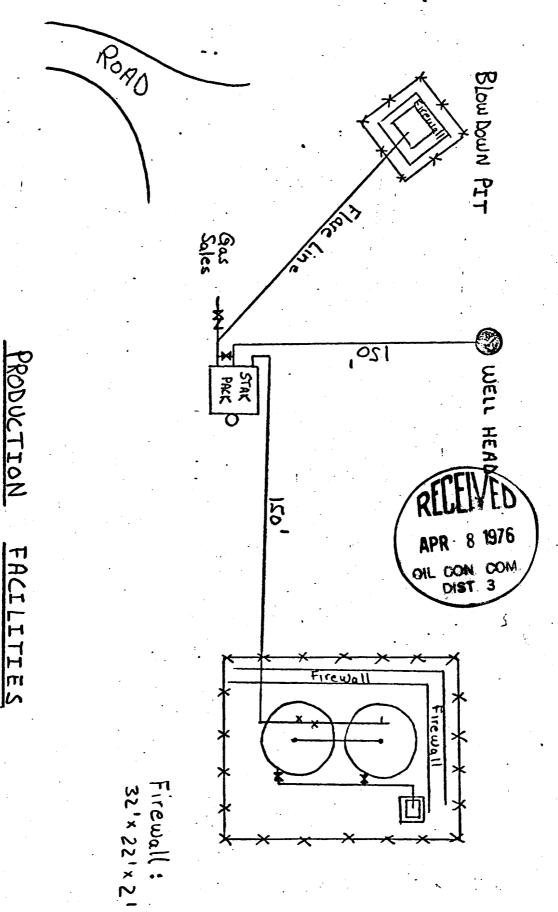


8 1976

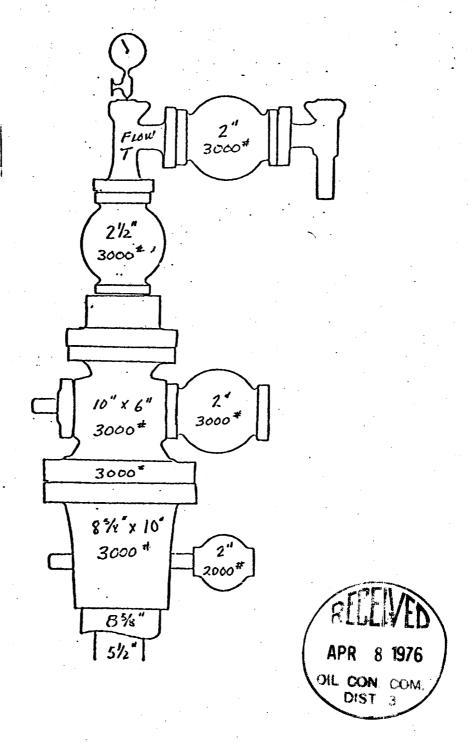
OIL CON COM

APR

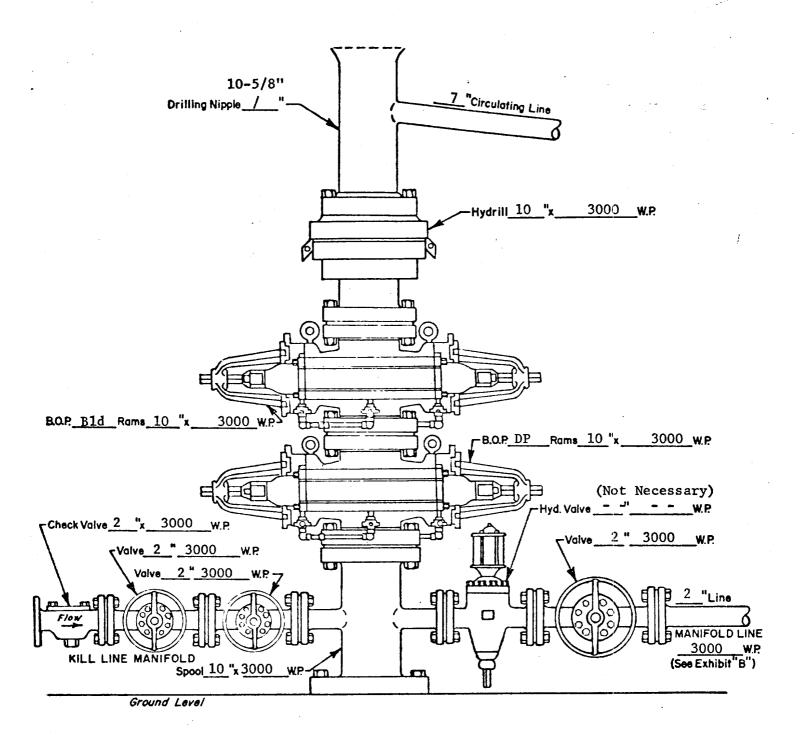
Navajo. No. 5-E18 DLE/4-1-76



FACILITIES



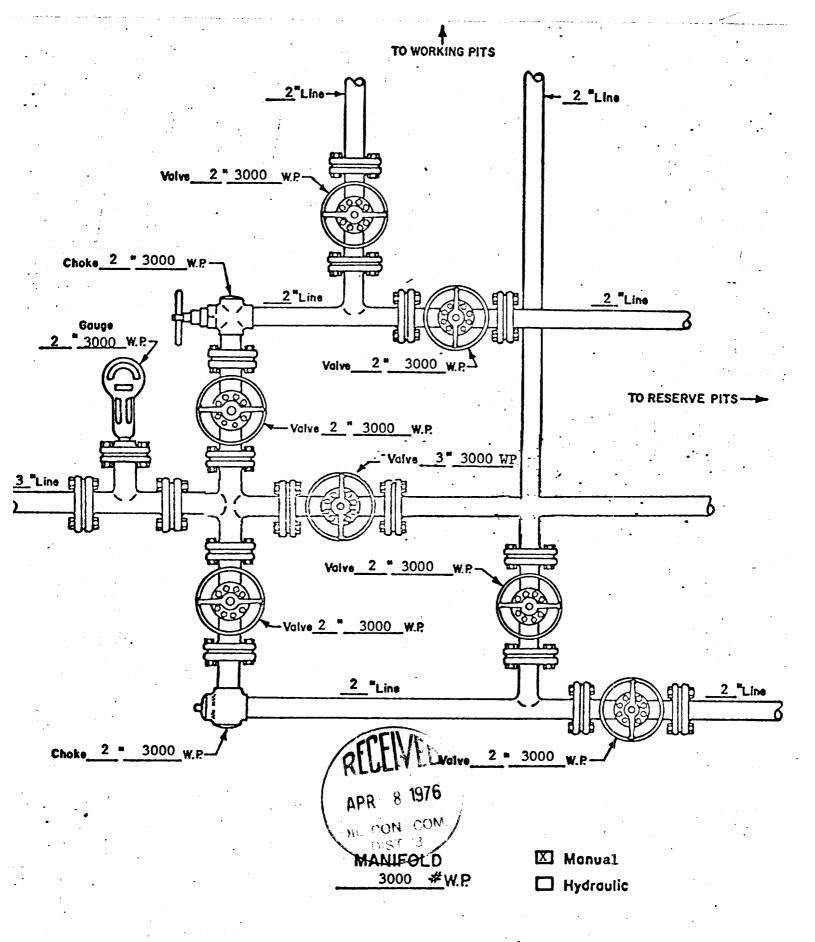
Union Oil Company of California . Navajo Well No. 5-E18



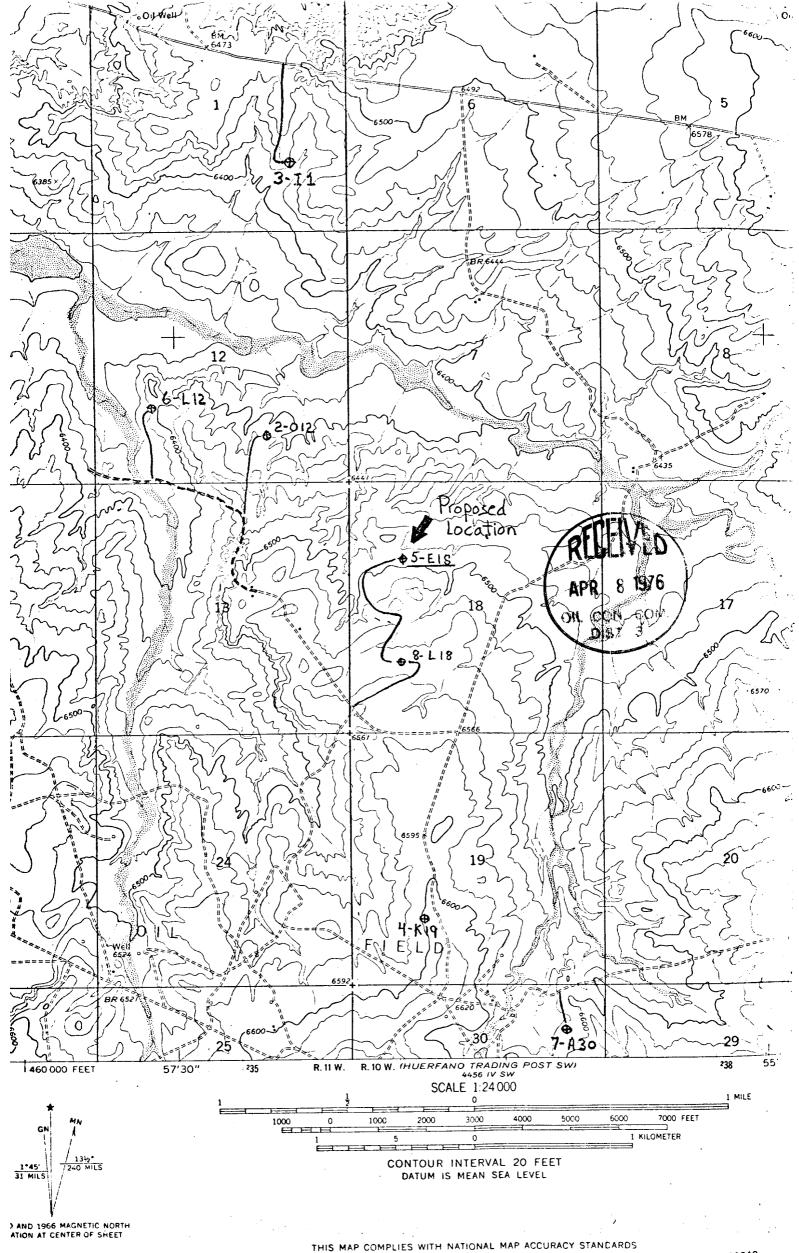
WELL HEAD B.O.P. 3000 #W.P.



Union Oil Company of California Navajo Well No. 5-E18



Union Oil Company of California Navajo Well No. 5-E18



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



### OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

1000 RIO BRAZOS RD. - AZTEC

87410

LAND COMMISSIONER
PHIL R. LUCERO



STATE GEOLOGIST EMERY C. ARNOLD

JOE D. RAMEY

DIRECTOR

April 13, 1976

Mr. R. G. Ladd, Jr. Union Oil Company of California P. O. Box 2620 Casper, Wyoming 82601

Re: Dedicated acreages for your Navajo well #2, #3, #4, #5, #6, #7 & #8

Dear Mr. Ladd:

When the dedicated acreage for each of the above listed wells has been communitized please send us a letter to that effect.

We do not want a copy of the communitization agreement.

The communitization must be completed prior to production of each well.

If there are questions, please contact us.

Yours very truly,

A. R. Kendrick
Supervisor, District #3

ARK:mc

Form 9-331 (May 1963)

## UNITED STATES SUBMI DEPARTMENT OF THE INTERIOR verse si

SUBMIT IN TRIPLICATE\*
(Other instructions on re-

Form approved.
Budget Bureau No. 42-R1424.
LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY					5. LEASE DESIGNATION AND SERIAL NO.		
		NOO-C-14-20-3772					
SUNDRY (Do not use this form Use		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo					
OIL GAS WELL WELL X	OTHER				7. UNIT AGREEMENT	NAME	
2. NAME OF OPERATOR					8. FARM OR LEASE 1	NAME	
Union Oil (	Company of Californi	la		1	Navajo E-18	)	
3. ADDRESS OF OPERATOR			AND SOUTH		WELL NO.	<i></i>	
P. O. Box :	2620 - Casper, WY	82601			5		
4. LOCATION OF WELL (Report See also space 17 below.) At surface	location clearly and in accordance	e with any Star	te requirements.		10. FIELD AND POOL Basin Dakota		
1500' FI	NL & 1150' FWL		1 JUN 32 19	7 <b>6</b> 🛚	11. SEC., T., R., M., O SURVEY OR AS	OR BLK. AND BEA	
			VOID COURSE OF		Sec. 18, T.2		
14. PERMIT NO.	15. ELEVATIONS (Show			"	12. COUNTY OR PART	ISH 13. STATE	
		6482 <b>'</b> G.	. I.		San Juan	New Mexico	
16. CI	heck Appropriate Box To Ir	ndicate Natu	re of Notice, Report	, or Oth	ier Data		
NOTICE	OF INTENTION TO:	1		SUBSEQUEN	T REPORT OF:		
TEST WATER SHUT-OFF FRACTURE TREAT	PULL OR ALTER CASING MULTIPLE COMPLETE		WATER SHUT-OFF		REPAIRING ALTERING		
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDIZIN		ABANDON		
REPAIR WELL	CHANGE PLANS				ry Well Hist		
(Other)			Completion or F	results of Recompleti	multiple completion Report and Log	form.)	
17. DESCRIBE PROPOSED OR COMP proposed work. If well nent to this work.) *	LETED OPERATIONS (Clearly state a is directionally drilled, give subst	ill pertinent de irface lo <b>cat</b> ions	tails, and give pertinent and measured and true	dates, in vertical o	cluding estimated of lepths for all mark	date of starting any ters and zones perti-	
Drilled to 6315' Caliper.	T.D. Ran Dual Ind	uction Lo	og, Compensated	Neutr	on Log and	FDC with	
with 250 sacks p Dropped bomb and pozmix cement.	5-1/2" casing at 6,3 pozmix cement. Bumpd opened two-stage D Bumped plug and clocig at 6:00 a.m., 6-	ed plug a .V. colla sed D.V.	and released prair. Cemented s	essure econd	e; float hel stage with	ld O.K. 600 sacks	
tubing to top of Pressured casing Pulled up to 612 PDC log and perf packer on 2-3/8	gged up well service cement at 4312'. g to 1500#, O.K. Di 28'. Spotted 250 ga fed at 6065-67', 609' tubing and set at 2 to 3250# with ball	Drilling splaced v 11ons reg 4-95', 61 5877'. T	cement and two vater with 5% K gular acid. P. .04-06' & 6117- Treated perfs a	-stage C1 wat O.O.H. 28' wi t 3-1/	e collar at ter in casir . E.T.D. 62 ith 2 holes/ /2 to 5 bpm	4342'. ng and tubing 294'. Ran /ft. Ran at 2500# to	

total 45 ball sealers. ISDP 1200#. 450#/15. Total load 90 bbls. Swabbed F.L. to 5800'/3 runs. Recovered gas-cut water. Swabbed 3 hours. F.L. scattered from 1500' to 5800'. Recovered heavy gas-cut water with very little gas between runs. Left open on 1/4" choke overnight. Well flowing gas this a.m. with oily water mist. FTP 40#.

(CONTINUED ON ATTACHED SHEET)

\*See Instructions on Reverse Side

. 1

U.S.G.S. Form 9-331 Page 2

Union Oil Company of California Navajo No. 5-E18 6-18-76 Page 2

Made one swab run with no recovery. Flowed gas 7 hours and recovered 7 bbls. oil. P.O.O.H. with tubing and packer. Prep. to frac.

