SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES reverse side) 30-043-20275. LEASE DESIGNATION AND SERIAL NO. 20276 DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY NOO-C-14-20-6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK NAVAJO 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DEEPEN PLUG BACK DRILL X b. TYPE OF WELL MULTIPLE ZONE 8. FARM OR LEASE NAME OIL WELL X WELL OTHER **GULF NAVAJO** 2. NAME OF OPERATOR 9. WELL NO. Chace Oil Company, INC 3. ADDRESS OF OPERATOR 313 Washington, SE, Albuquerque, NM 87108

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

At surface. 10. FIELD AND POOL, OR WILDCAT RUSTY CHACRA eu! 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Unit ''M'' 1150' SL & 890 WL At proposed prod. zone Sec. 12 T22N-R7W Same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE Sandova 1 NM 13 miles SW of Counselors, NM 15. DISTANCE FROM PROPOSED®
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE 160 890' 160 19. PROPOSED DEPTH 20. ROTABY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLE TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1600' Rotary 2100' 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) July 15, 1977 7033' GR 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 5/8" 24# 80 **'** 80 sxs 12 3/4 Drill 12 3/4" hole to 103' Set 8 5/8" csg. to approx. 100' Cement to surface. Using adequate mud system and BOP drill a 7 7/8" hole to 2100' Log with Induction and Density logs and if productive run $4\frac{1}{2}$ " - 9.5# csg to TD and complete as gas well. BOP to be a Scheaffer Doublegate Hydralic to tested to 3000#'s

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.

Che TITLE SIGNED (This space for Federal or State office use) APPROVAL DATE PERMIT NO. APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

	•	All dist	ances must be	from the outer I	cundaries of	f the Sect	ion		
Operator CHACI	E OIL COM			Leose GU		VAJO		Well No.	
Unit Letter M	Section 12	Township 22 N	ORTH	Ronge 7 W	ES T	County	DOVAL		
Actual Footage Loca	otion of Well:						DOTAL		
1150	feet from the	SOUTH	line and	890	feet	from the	WEST	line	
Ground Level Elev. 7033	Producing	Formation Aacta		Pool (Ca	usta	1	لاده	Dedicated Avereage	Acre
1. Outline the	aceroge dedica	ted to the sub	ject well by co	olored pencil	or hackure	marks o	on the pla	t below.	
	n one lease is				ν			nereof (both as to	working
3. If more than by communitize	n one lease of ation, unitization	different own on, force-pool	ership is dedi ling. etc?	coted to the	well, have	the inte	erests of a	all owners been con	solidated
() Yes () No 11	f answer is "	yes," type of	consolidation	•••••	·····			
If answer is "no necessary.)	," list the own	ers and tract	descriptions v	which have a	ctually co	nsolidate	ed. (Use	reverse side of this	Form if
No allowable wi	II be assigned to	o the well unt o non standar	il all interests d unit, elimina	s have been cating such in	onsolidate terests, ha	ed (by o is been o	communiti approved l	zation, unitization, by the Commission.	forced-
							CE	RTIFICATIO	
								ertify that the informat	

I 1 ı 12 N 1 ;1 1

SCALE-4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY,

FARMINGTON, N. M.

herein is frue and complete to the best of my knowledge and belief.

Royce McCary Position President

Cempany Chace Oil Company Date

5-10-77

I hereby certify that the well location shown on this plat was platted 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.

3 March 1977 Date Surveyed

Registered Professional Entineer and Professional Entineer and Ourveyor James P. Leese

1463 Certificate No.

I hereby certify that I, or persons under my direct supervision, have inspected the proprosed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chace Oil Company, Inc.

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

May 12, 1977

Date

Royce McCary, President

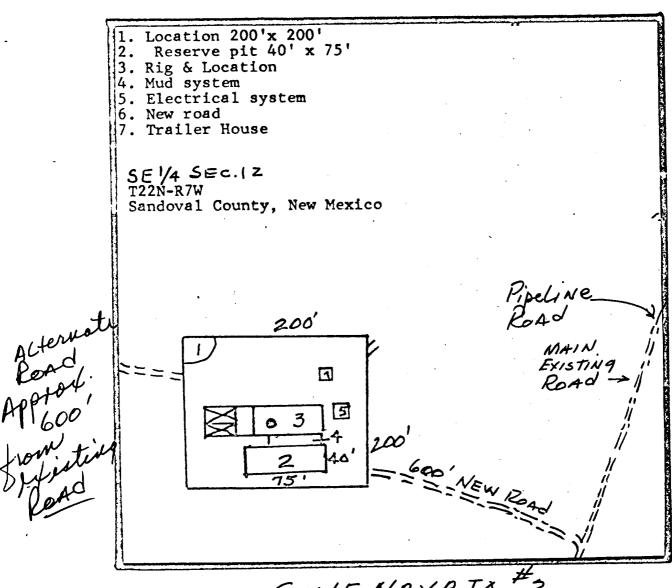
Article II - B Paragraph 3

Blowout Preventor to be the standard rental 10" Scheaffer Doublegate Hydralic BOP tested to 3000 psia. BOP tested when leaving rental warehouse and checked for efficient operation daily.

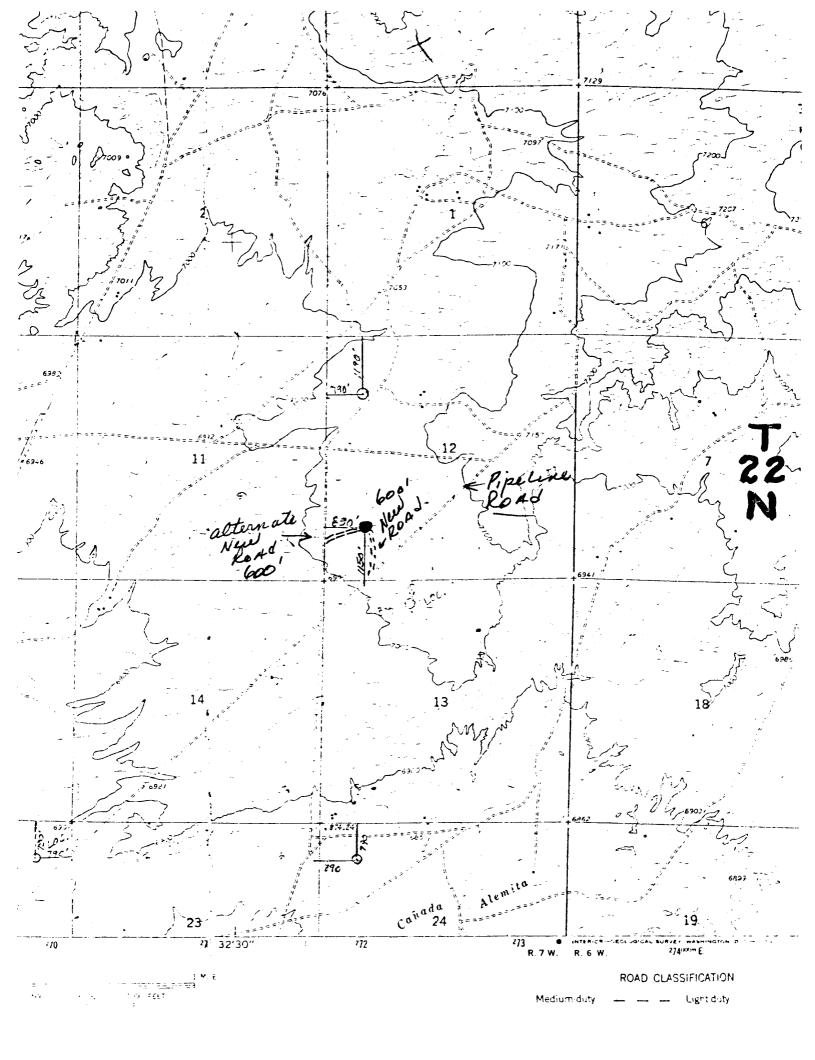
DEVELOPMENT PLAN FOR SURFACE RESUME

Chace Oil Company #2 Gulf Navajo Unit M 890' WL & 1150' SL Sec. 12 T22N-R7W Sandoval County, New Mexico

- Location and vicinity map, San Juan Engineering Company Exit Hwy 44 at Counselors, N.M.
- 600' of new road to be compacted to connect drill site with existing area roads. New road to be 20' in width.
- Well site is approximately 1800' Northwest of the Gulf Federal #1 in Unit C, Section 13, T22N-R7W.
- 4. Roads shown on vicinity plat and location plat.
- 5. In case of production (gas) well will be tied into a gathering line, but market has not been established. No tank batteries or separators are anticipated at this time.
- 6. Water to come from private source at Lybrook, New Mexico.
- All trash and waste material will be placed in the mud pit and covered. No additional surface to be used, such as air strips or campsites.
- 8. NONE
- 9. NONE
- 10. Rig layout shown on plat attached
- 11. The topography is rolling, covered with sagebrush, sand, broom snakeweed.
- 12. Drilling pad to be compacted.
- 13. After well completion, location to be restored to original condition less a few sagebrush and sodded with required seeds.
- 14. Field representative to contact is Royce McCary, telephone 266-5562 at 313 Washington S.E., Albuquerque, New Mexico 87108



GUIF NAVAJO



(MEAN TROS)	UNITED STATES MENT OF THE INTER	SUBMIT IN TRIPLICATE (Other instructions on verse side)	Form approved. Budget Bureau No. 4: 5. LEASE DESIGNATION AND SEE	
	SEOLOGICAL SURVEY		N00-C-14-20-5569	
SUNDRY NOT	ICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTES OR TRIE	E NAME
(Do not use this form for propor Use "APPLICA"			Navajo	
1.			7. UNIT AGREEMENT NAME	
OIL GAB WELL X OTHER 2. NAME OF OPERATOR	· · · · · · · · · · · · · · · · · · ·		8. FARM OR LEASE NAME	
Chace Development Compa	nv. Inc.	•	Gulf Navajo	
3. ADDRESS OF OPERATOR 313 Washington SE Albu			9. WELL NO.	
4. LOCATION OF WELL (Report location c	· · · · · · · · · · · · · · · · · · ·	y State requirements.*	2 10. FIELD AND POOL, OR WILDCA	T
See also space 17 below.) At surface	CL # 0001 111	•	Rusty Chacra	
Unit "M" 1150'	2F % 8AO. MF		11. SEC., T., R., M., OR BLE. AND SURVEY OR ARBA	
			Sec. 12 T22N, R7W	
14. PERMIT NO.	15. ELEVATIONS (Show whether 7033 GR	DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. ST. Sandoval NM	ATB
16. Check Ap	propriate Box To Indicate	Nature of Notice, Report, or	Other Data	
NOTICE OF INTEN		· · · · · · · · · · · · · · · · · · ·	EQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL	
	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING	_
	ABANDON*	SHOOTING OR ACIDIZING (Other)	ABANDONMENT*	_
(Other) SPUD	X	(NOTE: Report resu	lts of multiple completion on Well apletion Report and Log form.)	
Preparing to Contractor.	spud on or about J	une 1, 1980. Lee Wi ⁻	lson Drilling to be	•
				·
	· ·			
18. I hereby certify that the foregoing is	true and correct	President	E /30 /00	
SIGNED THE COLL IN	TITLE	rrestuent	DATE 5/12/80	
(This space for Federal or State office	ne use)		DESCRIBE FOR RECORD	
APPROVED BY				
CONDITIONS OF APPROVAL, IF A	TITLE		MAY 22 1980	

ol Ful

*See Instructions on Reverse Side

FARMINGTON DISTRICT
BY Xuchera

Form 9-331 (May 1963)	UNITED S DEPARTMENT OF		SUBMIT IN TRIPLICATE* (Other instructions on re-	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
-	GEOLOGICA		il verse sine)	N00-C-14-20-5569
SI	JNDRY NOTICES AND	REPORTS OF	N WFIIS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	this form for proposals to drill or Use "APPLICATION FOR PE			Navajo
1.			, , , , , , , , , , , , , , , , , , , ,	7. UNIT AGREEMENT NAME
WELL X GAS WEL	L OTHER			
2. NAME OF OPERATO				8. FARM OR LEASE NAME
3. ADDRESS OF OPERA	Company, Inc.		7	Gulf Navajo 9. WELL NO.
	gton S.E. Albuquerqu			2
See also space 17	(Report location clearly and in ac below.)	cordance with any St	ate requirements.	10. FIELD AND POOL, OR WILDCAT
At surface				Rusty Chacra 11. SEC., T., E., M., OR BLK. AND
	1150/S 870/W			SURVEY OR AREA
14 ppp ver vo	`	- (C)		Sec. 12, T22N-R7W
14. PERMIT NO.	7033	S (Show whether DF, R	T, GR, etc.)	12. COUNTY OR PARISH 13. STATE
			. (A) D	Sandoval NM
10.	Notice of intention to:	x to indicate Nat	ture of Notice, Report, or C	
				DENT REPORT OF:
TEST WATER SHU FRACTURE TREAT	T-OFF PULL OR ALTER MULTIPLE COMP		WATER SHUT-OFF FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZI	B ABANDON*		SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS		(Other) Progress (Note: Report results	of multiple completion on Well
(Other) 17. DESCRIBE PROPOSE proposed work. nent to this wor	If well is directionally drilled, g	y state all pertinent of ive subsurface location	details, and give pertinent dates,	letion Report and Log form.) Including estimated date of starting any aldepths for all markers and zones perti-
	See Attached	Well History		
		·		Cir Court Co
			-CEIVED	A PART I
ñàar	STER EAST OF	l l	ECEIVED	-29
AUGE	PTED FOR RECORD		JUN 1 3 1993	1900
j	UN 13 1980	U. S.	GEOLOGICAL SURVEY	
ΕĄ	RMINGTON DISTRICT	\		•
BY E	They			
_				
10. I horoby contify th	hat the feetaralise to true and assess			
SIGNED SIGNED	hat the foregoing is true and corre		sident	DATE 6-4-80
(This space for F	ederal or State office use)	J		
APPROVED BY _ CONDITIONS OF	APPROVAL, IF ANY:	TITLE		DATE

CHACE OIL COMPANY, INC.



313 Washington S.E.

Albuquerque, New Mexico 87108

(505) 266-5562

Well:

Gulf Navajo #2

Location:

Unit "M" 1150' SL & 890' WL Sec. 12 T22N - R7W

Sandoval County, NM; Navajo Indian Lease NOO-C-14-20-5569

Elevation:

7033' GR

5-6-79

Location Approved

5-6-80

Prepared Location

5-22-80

Lee Wilson Drilling Contractor moved in

Spudded well drilled 85'-9 5/8 hole. Set 83.56' of 8 5/8

24# csg. cemented with 65 sxs Class B cement with 3% calcuim

chloride. Plug down 9:35

5-23-80

7:30 AM WORC to drill out.

Est. Tops - P.C.

1550'

Chacra A 1930"

Chacra B 2305'

Cliffhouse 3010'

3405'

Menefee (1st oil show) Menefee (2nd oil show) 3535'

3880'

Point Lookout

5-24-80

8:00 AM Drilling at 1100'

Mud Wt. 8.7

Vis. 38

WL 8 cc's

5-25-80

8:00 AM Drilling at 2200'- Changed bit

Mud Wt. 8.9

Vis. 39

WL 7 cc's

5-26-80

8:00 AM Drilling at 2600'-Bit locked up, came out replaced bit

back on bottom 5:00 AM

Mud 9.1

Vis. 40

WL 8 cc's

5-27-80

8:00 AM Drilling at 3100'

Mud. Wt. 9.3

Vic. 42

WL 9 cc's

5-28-60

8:00 AM Drilling at 3500'

Mud Wt. 8.9

Vis. 40

WL 8 cc's

Gulf Navajo #2 Page 2

- 5-29-80 8:00 AM Drilling at 3680' Lost three collars in hole, fishing Mud Wt. 8.9 Vis. 40 WL 8cc's
- 3-30-80 8:00 AM Drilling at 4010' Total depth at 2PM, Logging at 7PM Mud Wt. 9
 Vis. 65
 WL 6cc's
- Reached TD of 4105' at 1:30 PM. Circulated 2 hours came out hole. Mud Wt. 9.3
 Vis 65
 Started to log--Ran into Bridge at 230', went in hole with pipe pushed out Bridge at 400' came out of hole went in with log tool stopped at 400' Came out of hole with log tool. Went in hole with pipe punched out bridge at 400' ran into another bridge at 600' had to drill out went to bottom.
- Built up mud to 9.5# and 85 Vis- drilled 20 additional feet. Tallied pipe out found total depth at 3986' Ran IES and formation Density log with wellsite computation completed logging at 4PM Went back in hole with pipe came out of hole laying down pipe. Ran 99 joints 9.50# of $4\frac{1}{2}$ " csg plus 3' float collar. Derrick floor 6' from ground shoe set at 3987.52 with float at 3947.30'. Ran 4 cement baskets and 9 centralizers.
- Flushed hole with 1000 gallons of mud acid. Cemented with 675 sxs 50-50 posmix w/CFR Z Friction Reducer and 3/4 of 1% flow seal per sack followed by 100 sxs Class B neat circulated 20 barrels past surface, plug down at 2:45 AM. Waiting on Completion tools.

RECEIVED

JUN 1 1 1980

U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

L. E. WILSON DRILLING COMPANY

EXPLORATION DRILLING
POST OFFICE BOX 325
BLOOMFIELD, NEW MEXICO 87413
AREA CODE 505 632-2063

M-12-22N-7W

July 7, 1980



Chace Oil Company, Inc. 313 Washington S. E. Albuquerque, New Mexico 87108

Dear Sir:

Enclosed find Deviation Records for well drilled in May 1980. I hope this is what you were asking about in regards to the well drilled GULF NAVAJO # 2.

Very truly yours,

L. E. Wilson,

L. E. (Lee) Wilson Drilling Co.

Wilsten

Deviation as shown below:

2010'	-	10
2605'	-	1140
3095'	-	1½0
4000'	-	2°

NEW MEXICO OIL CONSERVATION COMMISSION MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 Revised 12-1-55

															
Rusty Chacra						Forma	Chacra						County Sandoval .		
Initial Annual X						Special Date o					Date of				
											<u> </u>	6-28			
Company Change David Company Turn						Lease		ו בו					Well No		
Chace Development Company, Inc.							Gulf Navajo 2								
	"M"	1:	2		22	'N I		7W			1	aso Na	tural	l Gas Com	nanv
Casi		Wt.			1.D.		Set at				Perí.	450 110		To	pany
	4-1/2"	! !	9.5	- [4.0	00	3986			1967 1977					
Tubii	•	Wt.	с 4		I.D.	.D. S		Set at		Perf.			To 1001		
	2-3/8"		6#	† To	2.0	100	1979 1981			<u> </u>	1991 Bar. Press.				
Gas	Pay:	1967		i.	1991	-		:					15.025		
		1	Casing	1		Tubino	1						ingle — Braden head — G.G. or G.O. Dual		
l	ucing Through:	<u>:</u>		TD						D		Single	com	oletion	
1	of Completion /23/80			Pack		ne				neser	voir Temp.	71 ⁰			
"				1			ОВ	SERVE	D DAT	A		• •			
												Туре	f Taps		
Test	ed Through:		Prove	er 📗		Choke			Meter						
ļ				DATA	T				TU	BING	DATA	-	CASING	DATA	DURATION
No.	(Prover) (Line)	(Choke	e)	Pre	ig.	Diff.	Ten °F	- 1	Pres		Temp.		ress.	Temp.	OF FLOW HR.
Si	Size 211	Size					60		psig.		60	psig. 181		60	24
1.		,	• +		-+					- 00		 			1
2.										,		1			
3.															
4.														_	
5.		l							~	2110		<u> </u>	•		1
\vdash	Coefficien	ıt T	<i></i>		Р	ressure		low Ten		G	ravity	Co	mpress.	Rate o	Flow Q-MCF PD
No.	(24 Hour)	i -	√ ^h w	P _f		psia	Factor F			F F P 15.025 p			9 15.025 psia		
1.												الارمور على الموري		1	
2.				MEAS	URE.D	CFF	SEE ATTACHED CHART				<u> </u>	J. S.		<u> </u>	
3. 4.				TILAS	OKL.D	JLL	SEE THINGHED CHARL					 	11		
5.												+ +	04 190		
					·	PRE	SSUR	RE CAL	_CULA	TION				ON SOL	7 1
Cas	Liguid Hydro	ocarbon F	Ratio	N	lone	cf/					ity Separa	tor Gas	(D)	ON COM	1
Gra	vity of Liquid	d Hydroco	mbons	:									_		<i>j</i>
Fc.			(]	l - e ^{-S}))			P	c		P _s 2				
						•									
No.	P w	Pt	2	F	0	(FQ) ²	1	2			P 2	Pc2-	P2	Cal	P w P c
	P _t psia		ft c		`	('.c ⁽⁾		(F _c Q) 2 (1-e ^{-s})		P ₂ P _c		P _w		Pc	
1. 2.															1
3.					+										
4.		1					1								1
5.															
ABS	OLUTE POT	rential.	:	227				мсғ	PD; r	ı					
CON	MPANY Chac	e Deve	lopme	ent (Compar	y, Inc.		w	ITNES:	SED -	Andy	Birdse	211		
ADE	ORESS 313	Washi	ngtor	n)SE	Alb	uquerqu	e, N	<u>М</u> с	OMPAN	1Y _		, <u> </u>		·	
AGE	ENT AND TIT	TLE	Roy	ce Mo	Cary,	Preside	ent								

