NW OIL CONS. CUMMISSIUM

SUBMIT IN " PLICATE.

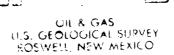
Form approved. Budget Bureau No. 42-R1425.

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Artes	NPMED885₽ATES	(Other inte)
DADTM	ENT OF THE INTEDIOD	

	Artes IN DEPARTMENT	EDSTATES OF THE I		RIOR	revers	·e)	5. LEASE DESIGNA	TION AND BERIAL NO.
0/SF	GEOLO	GICAL SURV	ΕY				NM22207	
APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPE	N, OR F	LUG B	ACK		OTTRE OR TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL	ILL 🛭	DEEPEN [PL	UG BAC	к 🗆	7. UNIT AGREEME	NT NAMB
=	AS OTHER			NGLE X	MULTIPI Zone	• 🗌	Washingt	bit™Ranch
2. NAME OF OPERATOR							Storage	
El Paso Nat. 3. ADDRESS OF OPERATOR	ural Gas Co.	<i></i>		<u> </u>	ECEIVE)	9. WELL NO.	al 24
1800 Wilco	Bldg., Midlan	d, Texas	79	701			10. FIELD AND PO	OL, OR WILDCAT
4. LOCATION OF WELL (R	eport location clearly and	in accordance wit	h any S	tate requirem	nts.*4 19	82 ×	_Washingt	on RanchMe
2063' FNL,	2452' FWL			******			11. SEC., T., R., M. AND SURVEY C	, OR BLK.
At proposed prod. zor Same	ne			O	C. D.	- J = 1	Sec.34,T	-25-S,R-24-E
	AND DIRECTION FROM NEAR Whites City,		T OFFICE		SIA, UFFR		12. COUNTY OR PA Eddy	NM NM
15. DISTANCE FROM PROPLOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr)	T LINE, FT.	NA	16. NO	NA	LEASE		OF ACRES ASSIGNED	
18. DISTANCE FROM PROF. TO NEAREST WELL, D. OR APPLIED FOR, ON TH	RILLING, COMPLETED,	NA	19. PR	7050 TEPTH	:	20. ROTA Rotal	TY OR CABLE TOOLS	
21. ELEVATIONS (Show who 3695 GR	ether DF, RT, GR, etc.)					i j	22. APPROX. DAT February	E WORK WILL START*
23.	P	ROPOSED CASH	NG ANI	CEMENTIN	G PROGRA	M	1	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING	DEPTH		QUANTITY OF C	EMENT
16"	13 3/8"Cond	29.3 H-	40	4	0'	30	cu.ft. Ci	rculate
12½"	9 5/8"	32.3 H-	40	80	0'		cu.ft. Ci	rculate
8½"	7"	23.0 N-	80	705	0 '	1341	cu.ft.	

SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
13 3/8"Cond	29.3 H-40	40	30 cu.ft. Circulate	
9 5/8"	32.3 H-40	800'	630 cu.ft. Circulate	
7"	23.0 N-80	7050 '	1341 cu.ft.	
-	13 3/8"Cond 9 5/8"	13 3/8"Cond 29.3 H-40 9 5/8" 32.3 H-40	13 3/8"Cond 29.3 H-40 40' 9 5/8" 32.3 H-40 800'	

Project approved by NMOCD Order No. R-6175-A. Selectively perforate and treat the Morrow formation for gas storage. A 3000 psi WP and 6000 psi test double gat BOP with blind and pipe rams will be used for blowout prevention



IN ABOVE 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

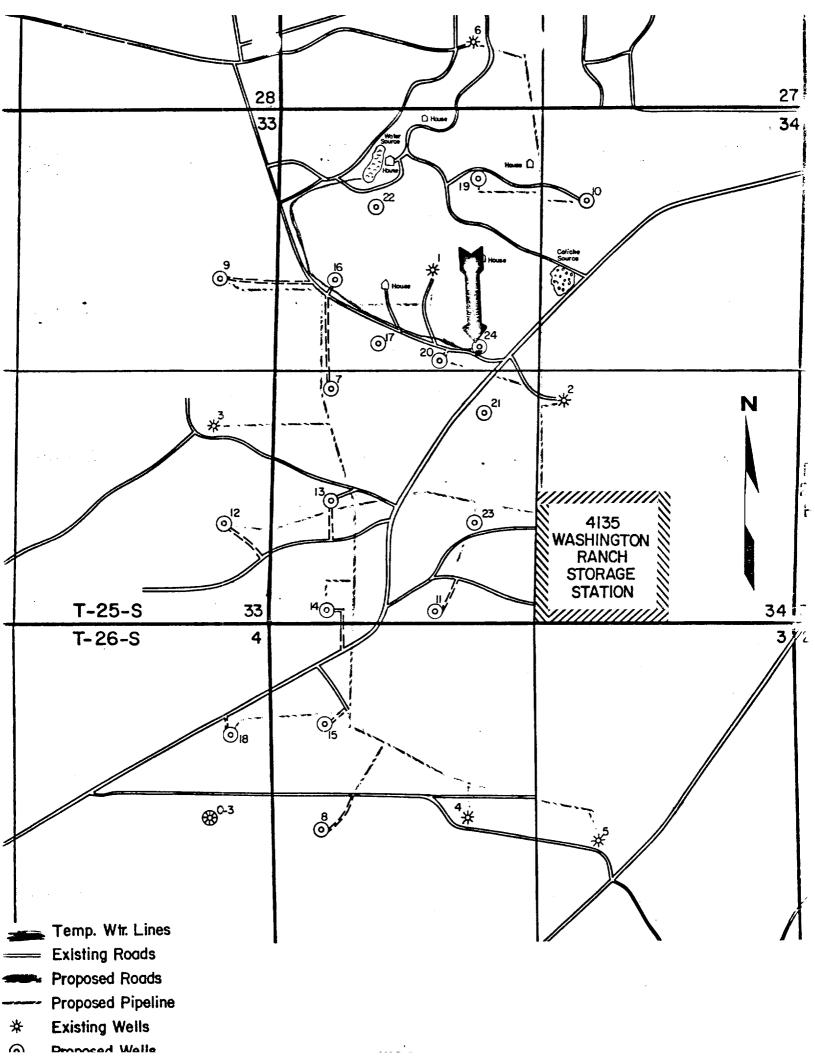
reventer program 4. SIGNED		alec _{ritte} A	rea Drilling	Eng.	2-4-82
į	ADDROVED				
APPROVED BYCONDITIONS OF	JAMES A. GILLHAM DISTRICT SUPERVISOR	*See Instruction:	APPROVAL SUBJECT GENERAL REQUIRE SPECIAL STIPULAT ATTACHED S On Reverse Side	WEN12 HAD	t 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

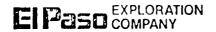
NEW MEXICO OIL CONSERVATION COMMISSION WEL' CATION AND ACREAGE DEDICATIO' AT

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

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

			- i	uter boundaries of		·	I was a second
Operator E1 Pa	aso Natural (Gas Company	Legse Was	nington Ran	ch Stora	ge Project	Well NoWI # 24
Unit Letter	Section 34	Township 25-S	Ra	nge 24-E	County	County, New	Mexico
Actual Footage Loc		1 23 3	. <u></u>		1 Eddy	douney, non	
2063	feet from the		e and	2452 fee	et from the	West	line
Ground Level Elev: 3695	Producing Fo	Morrow	Pool	Washington	Ranch	Ded	icated Acreage: N/A Acres
1. Outline th	e acreage dedic	ated to the subje	ct well by c	olored pencil o	or hachure	marks on the pl	at below.
	ian one lease is nd royalty).	s dedicated to the	e well, outlin	ne each and ide	entify the o	ownership there	of (both as to working
		different ownershi unitization, force-	•		have the i	nterests of all	owners been consoli-
Yes	☐ No If	answer is "yes;" t	ype of conso	lidation			
If answer	is "no;" list the	owners and tract	descriptions	s which have a	ctually bee	en consolidated	. (Use reverse side of
this form i	f necessary.)						
	•					•	itization, unitization. roved by the Commis-
sion.							
	1	4		i I		CE	RTIFICATION
	1			ect Approve		I hereby certif	y that the information con-
İ	Ì	-	NMOC R-61	D Order No. 75A		· ·	s true and complete to the
	1	2063	., 52	1		best of my kno	wledge and belief.
	Ì			1		X X 1/2	Heille
	+	++	 _	-		Nome H. L. Mit	chell
	l 1					Position	1 D
	1			 	1	Company	ling Eng.
2452		o		į		I .	Matural Gas Co.
	 	WI #24		1		Date 2-4-82	
	1			1		2-4-02	
	ı						
	1			i	ŀ	1	ify that the well-location
	 					1	plat was plotted from field Il surveys made by me or
	1			į.		İ	rvision, and that the same
						1	priect to the best of my
	- - + -			-		knowledge and	Deli 9T
						Data Summer	
	 					Date Surveyed 1/2	26/82
	i					Registered Profe	ssional Engineer
	1			 		5 10	Q1/ VH
L						Certificate No.	Mountly
0 330 660	190 1320 1650 1	980 2310 2640	2000 150	0 1000	500 0		#1317





OPERATIONS PLAN

Washington Ranch Storage Project W.I. 24

Į. Location:

Section 34 , T- 25s, R-24-E Eddy County, New Mexico

Field:

Washington Ranch

Elevation: 3695 GR

II. Geology:

Α.	Formation	Tops:	Surface	Quaternary
•••			Castile	180
			Lamar	500
			Dela. Ss	575
			Cherry Cn	1,475
			Bone Spring	3,550
			Wolfcamp	5, 550
			Strawn	5,685
			Atoka	6,950
	-	•	Morrow Ls	6,500
			Morrow Clastics	6,620
			T.D.	<u>+</u> 7,050

B. Logging Program:

FDC-CNL

Dual Induction - SFL @ SP & GR curves

BHC-Sonic

C. Coring:

None

III. Drilling:

A. Mud Program:

Fresh water non-dispersed mud from surface

to coring point.

Use low fluid loss non-dispersed mud from

coring point to T.D.

IV. Materials:

A.	Casing Program:	HOLE SIZE	DEPTH	CSG SIZE	a Tw	GRADE
		16"	40 '	13 3/8"	29.3#	H-40
		12 1/4"	800	9 5/8"	32.3#	H-40
		8 1/2"	7,050'	7"	23.0#	N-80

- B. Float Equipment:
- 13 3/8" conductor None
 - 9 5/8" surface Cement quide shoe, orifice
 fill insert float two jts off
 bottom, centralizers on jts 1, 3,
 5, 7, 9, 11

C. Tubing:

7,000 ft. 2 7/8" 6.5# J-55

D. Wellhead Equipment:

Bradenhead, 9 5/8" OD slip-on X 11" 3000# W.P. @ 10" X 7" OD hanger

Tbg Spool 11" 3000# W.P. X 7 1/16" 5000# W.P. with 6" X 2 7/8" CD hanger

Upper Run: 3 1/8" -5000# W.P. master valve and production valves.

V. Cementing:

A. Conductor Casing (15" X 13 3/8"):

Cement in place with redi-mix aggregate cement (approx. 2 yds), WOC 12 hrs.

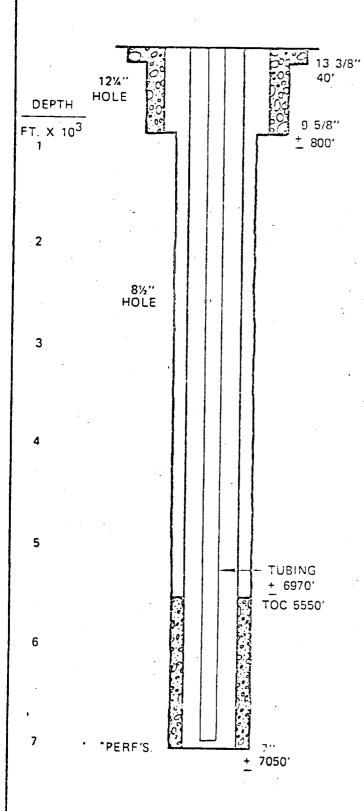
B. Surface Casing (12 1/4" X 9 5/8"):

Use 480 sx Class "C", 2% CaCl₂ and 5 lbs Kolite and 1/4# Celloflate per sack. (630 cu. ft., 150% excess to circulate to surface). WOC 8 hrs. Test csg to 800 psi for 30 min. before drilling plug.

C. Production Casing (8 1/2" X 7"):

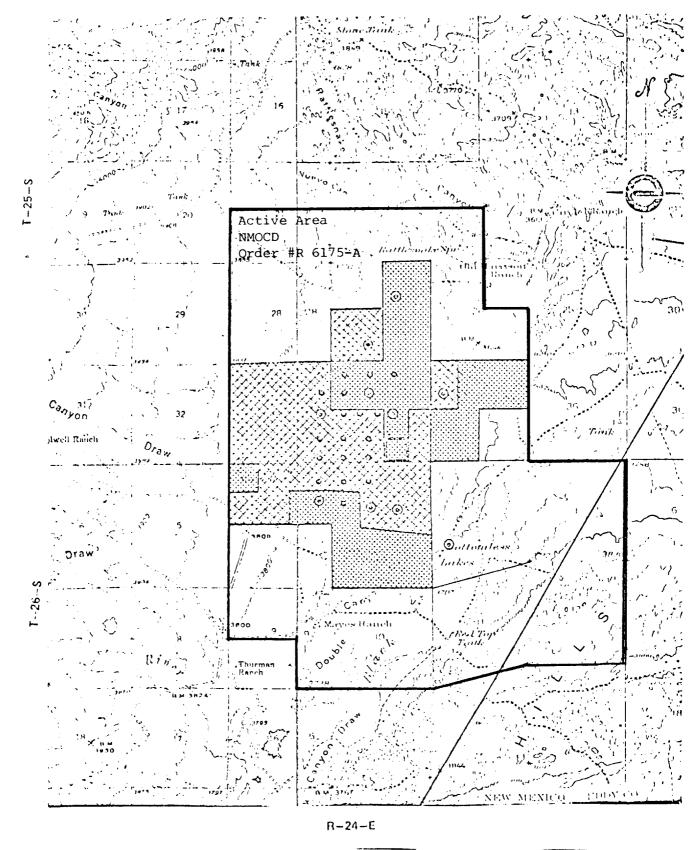
Use caliper volume plus 20% to fill to approx. 5,550'. Cement with approx. 250 sx Class "H" plus 4% gel and 10% salt, 0.5% D65 and 10 lbs Kolite. WOC 18 hrs. Run temperature survey after 8 hrs.

. WASHINGTON RANCH PROPOSED NEW I-W WELL



*			•		DRIFT
SIZE	GRADE	WT	BURST	COLLAPSE	<u>ID</u>
13 3/8"	USED				
9 5/8"		32.3	2270	1400	8.845
7"	-K5 5 ⁻³²	23	4360	3270	6.241
278"	J-55	6.5	7260	7680	2.441
3 - x	N-80				

8



LEGEND

U.S. LAND

WASHINGTON RANCH STORAGE PROJECT

FEE LAND

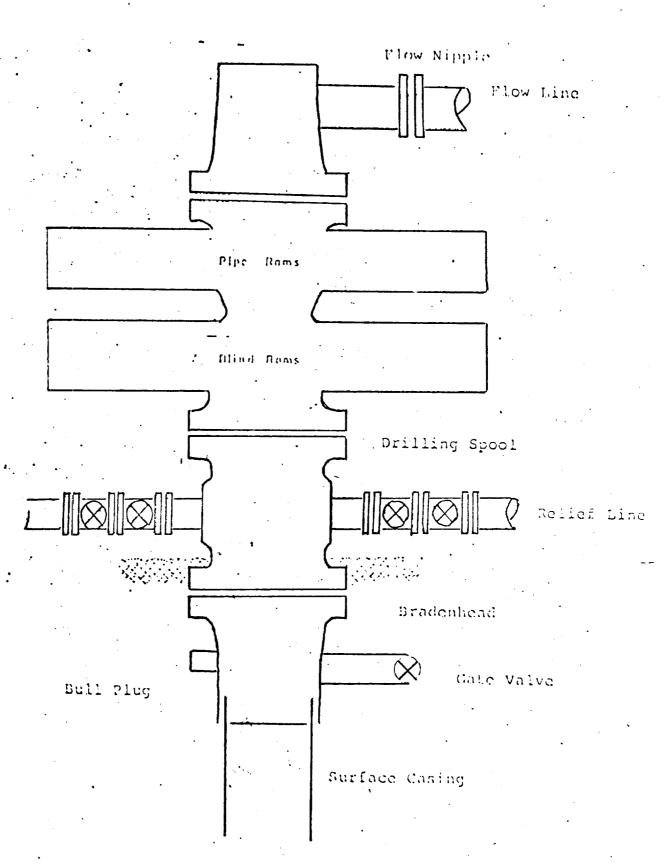
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EXISTING WELL

PROPOSED PLANT SITE

PROPOSED WELL

WOUR INTERVAL 25 FEET



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure