	· •	N.	M. O. C. C.	COPY		Cap	ey to SI=	
	Form 9-331 C (May 1963)			SUBI	AIT J RIPLICA	TE* Form a Budget	ery to SI ⁼ pproved. Bureau No. 42-R1425.	
.)		UNI	TED STATES		her in actions or reverse side)		-20903	
\mathcal{O}		DEPARTMEN	T OF THE IN	TERIOR		5 LEASE DESIGN	ATION AND SERIAL NO.	
•		GEOLO	DGICAL SURVE	Y				
	APPLICATIO	N FOR PERMIT				NM 052803	5 -A	
	1a. TYPE OF WORK		TO DRILL, D	CEPEIN, OR P	LUG BACK	- NM 14105	CITER OF THIS NAME	
			DEEPEN		UG BACK 🗌	7. UNIT AGREEMI	ENT NAME	
	b. TYPE OF WELL		RECEIV	'ED '''				
	WELL V	VELL OTHER		SINGLE X	MULTIPLE ZONE	8. FARM OR LEAS	E NAME	
	2. NAME OF OPERATOR		111 1 0 10	72			1_Spring Unit	
	Midwest Oi	1 Corporation	JUL 1 8 19	13		9. WELL NO.	spring unit	
	3. ADDRESS OF OPERATOR	1	:					
	1500 Wilco	10. FIELD AND PO	OL, OR WILDCAT					
		teport location clearly an		FICEtate requireme	nts.*)	Wildcat	:	
		L980' FNL & 198	O' FWL			11. SEC., T., R., M. AND SURVEY	, OR BLK.	
	At proposed prod. zon	^{le} Same	•			LIND SURVEY	A AREA	
	14. DISTANCE IN MILES	AND DIRECTION FROM NET	PERE TOWN OF BOOM			20-25S-26E		
	14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					12. COUNTY OR PA	BISH 13. STATE	
	15. DISTANCE FROM PROPO	USED*		6 NO OF ACTIVE IN		Eddy	N. Mex.	
	LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest drig	13/11 000	1980'	16. NO. OF ACRES IN LEASE 17. NO. TO		OF ACRES ASSIGNED THIS WELL		
	18. DISTANCE FROM PROP	OSED LOCATION*		9. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
	TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED, IS LEASE, FT.						
	21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)		2,000		Rotary	· · · ·	
	Gr. 3394'						E WORK WILL START*	
	23.		ROPOSED CASING	AND OPMENNER		July 15,	1973	
	SIZE OF HOLE		_·			·······		
	24	SIZE OF CASING	WEIGHT PER FOOT	SETTING DE		QUANTITY OF C	EMENT	
	172	13 3/8	94	<u>40</u>]K	remix		
	121/2	9 5/8	<u>48</u> 36 & 40			50 sx		
	* 8 3/4	7	23 & 26			300 sx		
	8 3/4	5½	17	108 120	· · · · · · · · · · · · · · · · · · ·	00 sx		
	* 6 1/8	41/2	11.6	10700-12	-	50 sx 00 sx		
				10,00 12		· •		
					Rz	CEIVER	a	
					26	Cc.		
					. //	VER		
	N.				U.S. 00	N2710-	4	
,					ADT	19 /3		
Cart					star sera	Non Show		
	* optional -	• A 7" protection	ve csg string	is planned	if obmorration	N271973 OUTOAL SURVER	· •	
	are encour	ntered.	te eeg berring	, is planned	11 abnorma	lly presequed	gas zones	
I	IN ABOVE SPACE DESCRIBE D cone. If proposal is to du	PROPOSED PROGRAM : If m	conosal is to doopon o	n nha kash at a n		× .		
2	one. If proposal is to dr preventer program, if any.	ill or deepen directional	s, give pertinent dat	a on subsurface loca	ta on present prod tions and measured	uctive zone and prop I and true vertical de	osed new productive	
2	4. A						pens. Give biowout	
	Konsi	a) M. Jean	A	· · · ·				
=	SIGNED	e quera na	TITLE	Productio	n Clerk	DATE6-	25-73	
	(This space for Federa	l or State office use)	(1 1-1		(
	PERMIT NO.	١		Suppor	10 00	inplace	n worth	
	TEL.			APPROVAL DATE	The last	total A.	tot	
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TAP+	CONDITIONS OF SPPROVAL	TO RESCINCED IF OP	NTHS.	Ren	, .	A BARE		
\r	WW ACCERT	CINCED 3 M	······································	quan	vacy l	cauge 6	12-13	
	PEEKMAN NEER	TS RESUMITHIN					- 	
\ h/	H. BHP HET ENGINE PROV	ANENCEN ANT	*See Instruction	is On Reverse Sid	da			
\KC	H. BHBEEKMAN H. BHBEEKMAN H. BHBEEKMAN HINGOUSSTATE APPROVA TINGOUSSTATE APPROVA			- On Neverse 210	16			
	ARE NES	V-						
	EXP.							

NE TEXICO OIL CONSERVATION COMMISSI

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		All distances mu	t be from the	outer boundaries o	f the Section.		·
erator MIDWEST	OIL COR	PORATION	Lease	COTTONWO	DD SPRING	unit	Well No.
it Letter Se	tion	Township	R	ange ·	County		······································
F	20	25 SOUTH		26 EAST	Eom	r .	2
tual Footage Location		Noazu	and 1	980 (a	et from the	VEST	line
und Level Elev.	Producing F		Pool			Ded	icated Acreage:
3394'	Mor	row		Wildcat			Acres
		ated to the subje	at wall by		or bachure me	rke on the n	at helow
interest and r 3. If more than o dated by comm X Yes If answer is this form if ne No allowable forced-pooling sion.	oyalty) one lease of nunitization,] No If "no," list the cessary.) will be assig , or otherwise	different ownershi unitization, force- answer is "yes," t e owners and tract ned to the well unt	p is dedicat pooling.etc ype of conso description il all intere	ted to the well, ? olidations s which have a sts have been	have the inte <i>United</i> actually been consolidated ch interests,	erests of all consolidated (by commun has been app	of (both as to working owners been consoli . (Use reverse side a itization, unitization roved by the Commis- RTIFICATION
						tained herein i best of my kno Jame Bonnie Positien	y that the information con- s true and complete to the wiedge and belief. Mushand Husband ion Clerk
1980	• <u>↓</u> (5	Pen	FEE		Company Midwest Date 6+25-73	0il Corporation
NM 0 S	28035-	A	STA STA	TE O TO		is true and c knowledge and Date Surveyed	y that the set location of a set of the some y is bound of the some of the source of the s
	1320 1650 1	N 2310 2340	2.5. 1412 2000 186	25		egistered Profe	JNE 14, 1973 sstonal Engineer offr M W We 676



United States Department of the Interior

GEOLOGICAL SURVEY

ft O. Drawer U Artesia, Maw Mexico 88210

June 22, 1973

NOTICE.

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON VEDERAL OIL AND GAS LEASES LATUF ADJESTA DISTRICT

The following requirements are established in accordance with 30 CFR 221:24, 221.36, and 221.37. Blows represente a algaent, choke equipment, drilling fluid characteristics, and the conduct of any well. In addition to all other deprivative rules, regulations, and accepted good operating practices, drilling calles in accordance with the following safety requirements:

- 1. After sutting the first of first control period of the pressure test report. In addition, the block of the product of the pressure by an independent of the product and the vertice of the product failing to test satisfactorily to add the product of the produ
- 2. Accurate shall a first state conacity reserve at all times co-provide state part of ration co-hydraulic preventers.
- 3. A drill buring set of reformance open position shall be maintained on the significant the times will duiting operations are being conducted.
- 4. Blownet provention bills shell be a stated as "necessary to insure that each drit day could be perpetitive allow to carry out emergency duties.
- 5. Mud by the moniconfluence and which each with floor indicators and viscos' and outlo allow, which we constructed and operating before .

drilling into the <u>Welfcarp</u> and used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and lesses.
- (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well condicions prevent running the pipe to bottom.
- 7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.

James A. Knauf

District Engineer

Lease No. 28035-A NM 05 Well No, 1 Cottonwood Spring Va Drillsite 1980/NYW 20-25-26 Depth 12,000 Morraw Approved 7-17-73

SURFACE DEVELOPMENT PLAN

Midwest Oil Corporation Cottonwood Spring Unit No. 1 Sec. 20, T25S, R26E Eddy County, New Mexico

- 1. Existing roads See attached map.
- Planned access roads See attached plat.
- Location of wells No existing wells within specified two-mile radius.
- 4. Lateral roads to well locations -See attached map.
- 5. Tank batteries and flow lines will be located on well pad.
- Water supply Water will be supplied by trucks.
- 7. Waste disposal All metal, wood, paper or other waste material will be collected and disposed of in a waste collection pit located on the northeast edge of the well pad. No waste will be allowed on the surrounding surface. The waste pit will be covered when the drilling and completion operations have been finaled.
- 8. Produced brine water will be collected in a metal tank and trucked to the nearest available salt water disposal facility.
- 9. Produced gas will be sold through the best available market in this area.
- 10. Location layout See attached plat.
- 11. Restoration of surface Reserve pits will be levelled and smoothed after drying. The area will be cleaned of all waste and restored as nearly as possible to its original contour.
- 12. Blowout preventer equipment as shown on the attached plat will be installed when surface casing is set.

Complete and detailed mud program is attached.

(shand) Bonnie Husband

Production Clerk

June 25, 1973





Midwest Oil Corporation #1 Cottonwood Spring 1980' FN & 1980' FWL Sec. 20, T255, R26E Eddy County, New Mexico





<u>Approx Interval</u>	<u>Type Mud</u>	Wt.	Vis	W.L.	Other
0 - 400	FW Spud				
400 - 2650	Brine	10.0	N.C.		
2650 - 9400	Fresh	8.4	N.C.		
9400 - 10,400	Brine	10.0	30 - 33		
10,400 - TD	Polymer	9.3 - 10.3	30 - 36	5	zero solid

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MUD PROGRAM - #1 COTTONWOOD SPRING UNIT

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THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 1. ALL PREVENTERS TO BE HYDFAULICALLY OPERATED WITH SECONDARY MANUAL CONTROLS INSTALLED PRIOR TO DRILLING OUT FROM UNDER CASING.
- 2. CHOKE OUTLET TO BE A MINIMUM OF 4" DIAMETER.
- 3. KILL LINE TO BE OF ALL STEEL CONSTRUCTION OF 2" MINIMUM DIAMETER.
- 4. OPENING BETWEEN RAMS TO BE FLANGED, STUDDED, OR CLAMPED.
- 5. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- 6. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B.O.P.'s.
- 7. ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'s.
- 8. UPPER & LOWER KELLY COCK TO BE INSTALLED ON KELLY. USE MUD SCREEN IN LOWER VALVE.
- 9. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
- 10. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLERS POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.
- 11. KILL LINE FOR EMERGENCY USE ONLY NOT TO BE USED FOR FILL UP.
- 12. STABBING VALVES FOR ALL CONNECTIONS IN DRILL STRING TO BE LOCATED ON RIG FLOOR.
- 13. HOLE MUST BE KEPT FILLED ON TRIPS BELOW INTERMEDIATE CASING. OPERATOR NOT RESPONSIBLE FOR BLOWOUTS RESULTING FROM NOT KEEPING HOLE FULL.
- 14. DRILLPIPE FLOAT MUST BE INSTALLED AND USED BELOW ZONE OF FIRST GAS INTRUSION, OR 10,000', WHICHEVER COMES FIRST