		N.M.O.C.D. C	OP V			
Form 9-331 C (May 1963)			SUBMIT I	N LICATE		wed. 2au No. 42-R1425.
		ED STATES	reve	rse side)	30-005-6	
		GICAL SURVEY			NM-23264	IN AND SERIAL NO.
APPLICATION	N FOR PERMIT	TO DRILL, DEEF	EN, OR PLU	g back	6. IF INDIAN, ALLOTT	TEE OB TRIBE NAME
1a. TYPE OF WORK DRI b. TYPE OF WELL		DRECENTED	• PLUG	ВАСК 🗌	7. UNIT AGBEEMENT	NAME
ou. 🗂	ELL OTHER				8. FARM OR LEASE N SALT FEDER	
Mesa Petrol	eum Co 🗸				9. WELL NO.	
3. ADDRESS OF OPERATOR		O. C. D.			<u> </u>	
_	Building/Midla			D	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance with any	State requirements.		× Undesignate	
660' FSL & 1980' FWL At proposed prod. zone			JUL 1 8 1980		11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Sec 8, T8S, R23E	
Same 14. DISTANCE IN MILES	IND DISDOTION PROM NEA	PRET TOWN OF POST	BEDEUGICAL SURI	/EY	12. COUNTY OR PARIS	
	N/NW of Roswel	ADT	eșia, new mexic	0	Chaves	N. Mexico
15. DISTANCE FROM PROPO		16. 1	O. OF ACRES IN LEAS		OF ACRES ASSIGNED THIS WELL	
LOCATION TO NEAREST PROPERTY OB LEASE LINE, FT. (Also to nearest drig, unit line, if any) 660'/660'		D'/660'	639.96		160	
18. DISTANCE FROM PROPOSED LOCATION [®] TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 28001			soposed depth 3500'			
21. ELEVATIONS (Show who 4106.7' GR	ether DF, RT, GR, etc.)				22. APPROX. DATE August 18,	WORE WILL START* ,1980
23.	1	PROPOSED CASING AN	D CEMENTING PR	OGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	IENT
10 1/44	0 5/01	21.4	7001	240		

 Size of Roce
 Size of CASING
 Weight Perfort
 Size for Casing
 Control of Casing

 12-1/4"
 8-5/8"
 24 #
 700'
 240 LW/100 "C"

 7-7/8"
 4-1/2"
 10.5 #
 3500'
 310 LW/360 POZ "C"

Propose to drill surface hole to 700' without BOPs. After cementing 8-5/8" casing at 700' and installing bradenhead, will nipple up 10" API 3000 psi BOPs and drill 7-7/8" hole to total depth of 3500'. Drilling fluid will consist of fresh water and fresh water additions, however, mud weight may increase from 8.8 ppg to as high as 10.2 - 10.3 ppg due to leaching of salt stringers. After log evaluation, 4-1/2" casing may be run to total depth and cemented (with cement being raised to surface pipe or surface).

Gas sales are not dedicated.

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 preventer program, if any.

SIGNED_R. P. Machino	TITLE Regulatory Coordinator	July 17, 1980
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	,
APPROVED BY	TITLE ACTING DISTRICT ENGINEER	DATE AUG 2 2 1980
CONDITIONS OF APPROVAL, IF ANY: XO MELZER CODE THE, TIMES &	. Nr. & KES 128.	No. She

*See Instructions On Reverse Side

N. MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances must be fro		of the Section.	
Operator Mesa	Petroleum		Salt Fe	deral	Well No.
'nit Letter	Section	Township	Range		
N	8	8 South	23 East	Chaves	
ctual Footage Loc 660		South line and	1980 (The state	
round Level Elev.	feet from the Producing Fo		1700 ie	et from the West	line licated Acreage:
4106.7	Abo		Undesignated	SW	// 160
				or hachure marks on the p	
2. If more th interest ar	an one lease is nd royalty).	dedicated to the well,	outline each and id	entify the ownership there	of (both as to working
dated by c Yes If answer :	ommunitization,	unitization, force-poolin mswer is "yes," type of	g. etc? consolidation	, have the interests of all	
No allowat				consolidated (by commun ach interests, has been app	
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RE	CÉIVE		TATE O. D.	best of my kno	is true and complete to the owledge and belief.
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U.S. I	Geological Suri Esia, New Mexic		MEXICO D	Position	Coordinator
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	i			Mesa Petro	leum Co
	l de la constante de la consta		1	Date	0.00
	1		1	July 17, 1	300
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			1		ify that the well location
	23264				plat was plotted from field al surveys made by me or
			1		ai surveys made by me or rvision, and that the same
	I		a a a a a a a a a a a a a a a a a a a		correct to the best of my
	 +			knowledge and	belief.
	ſ				
	1	4	1	Date Surveyed July 15	1980
	1980'	P	1		ssional Engineer
	U.SIA.	8		Jeler	Allalat
				Centricete No.	ATRICK A. ROMERO 660
330 660	90 1320 1650 19	89 2310 2640 2000	1800 1000	T ·	longid J Eidson 323

RECEIVED United States Department of the Interior AUG 26 1980 GEOLOGICAL SURVEY O. C. D. ARTESIA ARTESIA, OFFICE DISTRICT Mesa Petrolecem Co Salt Fed. No. 1 660'FSL 1980'FWL, Sec 8 T85 R 23E Chaves County Jease IVM-23264

Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES

These <u>General Requirements</u> apply generally to all oil and gas operations on Federal leases. They apply <u>specifically</u> to the above described well. <u>Special requirements</u> that apply and are effective for this well, if any, are check-marked in section 15 of these General Requirements.

1. GENERAL:

- A. Full-compliance with applicable laws and regulations, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessee's and/or operators are fully accountable for the actions of their contractors and subcontractors.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease name or unit name, well number, location of the well and the lease serial number.
- C. A complete copy of the approved Application for Permit to Drill and the accompanying Surface Use and Operations Plan along with any conditions of approval shall be available to authorized personnel at the drillsite whenever active construction or drilling operations are underway.
- D. A drilling operations progress report is to be submitted <u>daily</u> from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should be on paper not less than 5 X 8 inches in size and each page should identify the well by operator's name, well name and number, and by well location.
- E. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life. (See NTL-3)
- F. No construction activities, such as roads, well sites, tank battery sites, pits, or other work involving surface disturbance will be commenced until a Surface Use and Operations Plan is submitted and approval obtained.
- G. If, during operations, any archeological or historical sites, or any object of antiquity subject to the Antiquities Act of June 8, 1906, are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the appropriate offices of the Geological Survey and the Bureau of Land Management.
- H. Prior approval of the District Engineer is required for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval does not waive the written report requirements.

- Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- . All shows of fresh water and minerals will be reported and protected.
- K. Well area and lease premises will be maintained in a workmanifike manner with due regard to safety, conservation, and appearance. All waste associated with the drilling operations will be contained and will be buried in place (in a separate trash pit) or removed and deposited in an approved sanitary landfill. All garbage (metal containers will be crushed) and debris left on site will be buried at least two feet deep. All trash and debris will be buried or removed from the site within one month after removal trash and debris will be buried or removed from the site within one month after removal trash and debris and/or completion rig, and the wellsite will be kept clean and in a setthetically satisfactory condition for the life of the well.
- L. Unless drilling operations are commenced within one year, approval of an Application for Permit to Drill will automatically expire. A written request for extension may be granted if timely submitted.
- 2. CONSTRUCTION ACTIVITIES, (ALSO REFER TO SEC. 3, DRILLING PITS):
- A. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan, the conditions of approval and a copy of sec. 2 and 3 of these General Requirements.
- B. No caliche, gravel, or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Bureau of Land Management.
- C. Vegetative materials removed during construction must be disposed of in such manner that it does not detract from the aesthetics of the area and does not accelerate erosion. Vegetation removed during clearing operations should be placed in drainages, washes, gullies, etc., and "walked down" by crawler type tractor. If there are no drainages in resulting from construction activities will be disposed of. Any large rocks resulting from construction activities will not be piled or left in rows but will be left so they do not detract from the natural appearance of the area. Any available topsoil encountered during construction should be stockpiled for use in restoring the pite area. The vegetation should be stockpiled for use in restoring the area the place of the area. Any available topsoil ado not detract from the natural appearance of the area. Any available topsoil encountered during construction should be stockpiled for use in restoring the pit area after the pits are covered.

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E. Each existing fence to be crossed by the permittee will be braced and tied off before cutting so as to prevent slacking of the wire. The opening will be protected as necessary during construction to prevent the escape of livestock and upon completion of construction, the fence will be repaired back to the original standard of the existing fence. A cattleguard will be installed in any fence where a road is to be regularly traveled. A twelve foot gate will be installed adjacent to the cattleguard when necessary.

NOTE: Sec. 2-C and 2-D above apply primarily to Federal Surface. If the land is privately owned, these requirements may be varied to comply with the operator-landowner agreement.

3. DRILLING PITS:

- A. Mud pits will be constructed so as not to leak, break or allow discharge of liquids. Pits are not to be located in natural drainage. Any plastic material used to line pits must be removed to below ground level before pits are covered.
- B. All unguarded pits containing liquids will be fenced.
- C. Liquids in pits will be allowed to evaporate, or be properly disposed of otherwise, before pits are broken. Under no circumstances will pits be allowed to be cut to be drained.

4. CASING AND CEMENTING REQUIREMENTS:

- A. Surface casing is to be set at sufficient depth to protect fresh water zones and cement circulated to the surface. In areas where the salt section (Salado) is present, surface casing should be set at least 50 feet into the Rustler Anhydrite and cement circulated to the surface. If surface casing is set at a lesser depth, the first string of casing set below the salt section must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler, after cementing around the shoe with sufficient cement to fill to the base of the salt section, minimum.
- B. Intermediate and production casing strings are to be set and cemented as necessary to effectively isolate and seal off all water, oil, gas or potash bearing strata encountered in the well down to the casing point. Where the salt section is present, the minimum required cement fill behind the first casing string, either production or intermediate, set below the salt section is back to above the base of the salt section.
- C. Prior to drilling the plug after cementing, all casing strings shall be pressure tested. Test pressure shall not be less than 600 psi for surface casing, and a minimum of 1,500 psi or 0.2 psi/ft., whichever is greater, for other casing strings. If the pressure declines more than 10 percent in 30 minutes, or if there is other indication of a leak, the casing shall be recemented, repaired, or an additional casing string run, and the casing shall be tested again in the same manner.
- D. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until the cement has reached a compressive strength of at least 500 psi at the shoe, except that in no case shall tests be initiated until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log.

5. BLOWOUT PREVENTION:

- A. Blowout preventers and related well-control equipment shall be installed, tested and used in such manner necessary to prevent blowouts.
- B. Ram-type blowout preventers and related control equipment shall be pressure tested with water to the rated working pressure of the stack assembly (except that the annular-type preventer may be tested to 70 percent of rated working pressure): (a) when installed, (b) before drilling possible abnormally pressured zones, and (c) following repairs that require disconnecting a pressure seal in the assembly.
- C. While drill pipe is in use, ram-type blowout preventers shall be actuated to test proper functioning once each trip, but in no event less than once each day. The annular-type blowout preventer shall be actuated on the drill pipe at least once each week.
- D. Blowout preventers are to have proper rams for the operations being performed. Casing rams are required when running casing.
- E. Blowout preventers are to have handwheels installed.
- F. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.

- G. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- H. Drill string safety valve(s) to fit all pipe in the drill string are to be maintained on the rig floor while drilling operations are in progress.
- I. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded in the driller's log.
- J. The maximum pressure to be allowed on blowout preventers during well control operations is to be posted for each casing string.
- K. The characteristics, use, and testing of drilling mud and the conduct of related drilling procedures shall be such as are necessary for well control. Quantities of mud materials sufficient to insure well control shall be maintained, readily accessible for use at all times.
- L. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 100 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 conditions prevent running pipe to bottom.
- M. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the toolpusher shall maintain rig floor surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- 6. REPORTS:
- A. The following reports shall be filed with the District Engineer within 15 days after the work is completed:
- Five copies of Sundry Report, Form 9-331, giving complete information concerning:
- (a) Setting of each string of casing. Show size, grade and weight of casing set, size hole, depth set, amount and type of cement used, whether cement circulated, top of cement behind casing if determined, depth of cementing tools if used, casing test method and results, and date work was done. Show spud date on first report submitted.
- (b) Intervals tested, perforated, acidized, or fractured and results obtained.
 Show date work was done.
- (2) Four copies of Well Completion Report, Form 9-330. Show formation tops, drill stem test information, completion data, and production tests. Show all oil and gas zones and important water sands under item 37. Data on water sands should include rate of water inflow and elevation to which water rose in hole.
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- 7. DRILLER'S LOG:
- A. The following shall be entered in the daily driller's log:
- Blowout preventer pressure tests including test pressures and results.
- (2) Blowout preventer tests for proper functioning.
- (3) Blowout prevention drills conducted.
- (4) Casing run, including size, grade, weight and depth set.
- (5) How pipe was cemented, including amount of cement, type, whether cement circulated, location of cementing tools, etc.

- (6) Waiting on cement time for each casing string.
- (7) Casing pressure tests after cementing including test pressure and results.

8. DRILLSTEM TESTS:

- A. Estimated amounts of oil and gas recovered and/or produced during drillstem tests are to be shown in the driller's log and reported in accordance with NTL-4A.
- 9. GAS FLARING:

Pursuant to NTL-4A

- 10. WATER DISPOSAL:
 - A. An application for approval of the disposal method for water production from all new wells must be filed with the District Engineer prusuant to Section VII of NTL-2B. Failure to timely file such application will be considered an incident of non-compliance and will be grounds for issuing a shut-in order until the application is submitted.

11. SAFETY:

- A. All rig heating stoves are to be the explosion-proof type.
- B. Drilling rig engines should have water cooled exhausts.
- C. Rig safety lines are to be installed.
- D. Hard hats must be utilized.
- 12. SUBSEQUENT OR CHANGE OF PLANS:
 - A. Any additional construction, re-construction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan and prior approval by the Survey after clearance with the surface management agency.
- 13. REMOVAL OF DRILLING RIG:
 - A. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drillsite without prior approval from the Survey.
- 14. ABANDONMENT:
 - A. If the well is dry and is to be plugged, approval of the proposed plugging program may be obtained orally. However, oral approval must be confirmed in writing by immediately filing a Notice of Intention to Abandon on Form 9-331 in quintuplicate with the District Engineer. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc.
 - B. Upon completion of approved plugging, erect a regulation well marker which should not be less than 4 inches in diameter and extend at least 4 feet above general ground level. Heap up the dirt around the base of the marker about 12 inches to take care of any settling of the cellar. The top of the marker must be closed or capped. The following minimum information shall be permanently placed on the marker with a plate, cap, or welded bead:
 - (1) Operator
 - (2) Well number and name
 - (3) Section Township Range
 - (4) $\frac{1}{2}$ section or footage location from section lines

- (.beriuper ed yam saers betteft affected bergin esent of sonering and is sheprined natives bus holds branched a for notiountenco multiple use of the natural resources, they will be ripped a minimum of 12" minimum of 14 in depth in vehicular travel by view of the protected from vehicular travel by pad and/or access road is not considered necessary for the management and If, upon abandonment of wells on Federal surface, the retention of the well .0
- .inemeene volgende of the operator of a fliw sonebrooce of solution of the sol Vilamion abstruction restored in the tothe tothe notion of the second s ·0
- that a field inspection of the wellsite can be made. by depths, where cement plugs were placed, and the date plugging was completed. When all surface restoration work is completed, advise the District Office so was plugged, including depths where casing was cut and pulled from, intervals, to be filed on form 9-337 in quintuplicate showing the manner in which the well Within 15 days after plugging the well, a Subsequent Report of Abandonment is • 3
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<pre>light contained and with a fine mesh netfing toxic light with a fine mesh netfing (i.e. Hardware Cloth) with openings being]/2 inch or less.</pre>
F. For the protection of livestock and wildlife all pits containing toxic
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D. Minimum required fill of cement behind the 4 7 casing is to SURTACE
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and cement circulated to the surface. If surface casing is set at a lesser
A. O. A Surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface
The following special requirements apply and are effective when check-marked.
The following for adt
5. SPECIAL STIPULATIONS:

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G C	. Above ground permanent structures and equipment shall be painted in accordance with the attached Painting Guidelines. The paint color is to simulate:
	Sandstone Brown, Fed. Std. 595-20318 or 30318
<u>к — л</u>	Sagebrush Gray, Fed. Std. 595-26357 or 36357
Ж	. A kelly cock will be installed and maintained in operable condition.
I	. The District Office is to be notified in sufficient time for a representative to witness cementing of the 4/2 casing.
] J	A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U.S. Geological Survey, P.O. Drawer 1857, Roswell, New Mexico 88201. The effective date of the agreement must be prior to any sales.
К	. A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.
ΣĽ	At least one working day prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, Carlsbad Resource Area, 505-887-6544). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.
	All access roads constructed in conjunction with the drilling permit(APD) will be limited to a $1/2$ foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to $2-5$ feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general guide for the spacing of water bars:
	% Slope
	less than 2% . <t< th=""></t<>

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Special Stipulations:

DIRECTORY OF FEDERAL REGULATORY PERSONNEL

OIL & GAS OPERATIONS IN HOBBS DISTRICT

SURFACE USE AND REHABILITATION

Jueau of Land Management

Carlsbad Area (Lea and Eddy Counties) P. O. Box 506 Carlsbad, NM 88220 Office Phone: (505) 887-6544

G. Ben Koski Don Peterson

Roswell Area (Roosevelt and Chaves Counties) P. O. Box 1397 Roswell, NM 88201 Office Phone: (505) 622-7670

JJiwaH mol Lloyd Read

DRILLING & PRODUCING OPERATIONS

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U. S. Geological Survey - Oil and Gas Operations 414 West Taylor P. O. Box 1157 Hobbs, NM 88240

Office Hours: 8:00 a.m. - 4:30 p.m. Office Phone: (505) 393-3612 (505) 393-5146

Home Phones: Winnie O. Kelly (505) 393-6646 Ray J. Foster (505) 393-6646



United States Department of the Interior

GEOLOGICAL SURVEY P. O. Box 1157 Hobbs, New Mexico 88240

June 1, 1978

PAINTING REQUIREMENTS FOR OIL FIELD EQUIPMENT AND STRUCTURES

Sec. 102 (a) (8) of the "Federal Land Policy and Management Act of 1976" states:

"the public lands be managed in a manner that will protect the quality of scientific, scenic, historical, ecological, environmental, air and atmospheric, water resource, and archeological values; that, where appropriate, will preserve and protect certain public lands in their natural condition; that will provide food and habitat for fish and wildlife and domestic animals; and that will provide for outdoor recreation and human occupancy and use;"

In accordance with the above Act, the Bureau of Land Management has determined that all oil field equipment and structures installed on Federal leases, whether the leases contain a camouflage stipulation or not, will require painting to reduce the visual impact of color.

The following painting quidelines and procedures apply to all oilfield equipment and structures installed after the date of this notice. Painting stipulations and requirements previously issued to operators are modified to meet these quidelines and procedures.

- A. All equipment and structures (except heater treater fireboxes and stocks, small wire or galvanized fencing, and flow lines and other lines on the ground) that are located within 1/4 mile of any of the following will be camouflaged:
 - 1. A paved road.
 - 2. An unpaved road which is well-traveled by non-oil field personnel (at least 50 vehicles per 24 hours).
 - 3. An officially-designated public use site, observation area, or overlook.

- B. All equipment and structures not covered by A. above will be camouflaged using the following procedures:
- I. The initial criteria to be used to determine what should be camouflaged will be the equipment or structures that can be seen one-quarter mile or beyond from the proposed location. The equipment or structures that cannot be seen from this distance should not require camouflaging.
- 2. As a general rule, all high-level equipment (six feet or higher) such as tanks, separators and heater treater (except the firebox and stack) will require camouflaging.
- 3. As a general rule, equipment such as pumping units (the tips of movable parts--such as the horsehead, weights and beam--will be painted according to 05HA requirements), flow lines will be painted according to 05HA requirements), flow lines (4-inch or other lines on the ground, other small-size lines (4-inch or other lines on the ground, other small-size lines (4-inch or other lines on the ground, other small-size lines (4-inch or other lines (up to five feet in height), and small and galvanized headers (up to five feet in height), and small and galvanized beinting. If this type of equipment is normally painted, or painted from previous use, the contrast of color will be considered in visual assessment. It is desirable that as much equipment as possible be painted anymay.

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Exceptions to these requirements may be allowed (exceptions must be approved by BLM and USGS on a case-by-case basis), for the following reasons:

- Safety as described by the Occupational Safety and Health Administration (OSHA) in part 1910.55, Title 29 of the Code of the Federal Regulations "Safety Color Code for Marking Physical Hazards".
- 2. Function identification which might aid in the identification of materials conveyed as described in the American National Standards Institute (NUSI) document Al3.1 (Scheme for the Identification of Piping Sustems"; or
- 3. To aid in the functional use of certain types of equipment (i.e., painting equipment a dark color to absorb heat to aid flow of high viscuous liquids or a light color to prevent loss of hydrocarbons by evaporation).

MESA PETROLEUM CO SALT FEDERAL WELL NO. 1 660' FSL & 1980' FWL, Sec 8, T8S, R23E CHAVES COUNTY, NEW MEXICO

July 17, 1980

LEASE: NM - 23264

In conjunction with Form 9-331 C, Application for Permit to Drill subject well, the following items of pertinent information are submitted in accordance with U.S.G.S. requirements:

1. The geologic surface formation is San Andres.

2. Estimate tops of geologic markers are as follows:

Glorietta	591
Yeso	774
Abo	2841
Wolfcamp (Hueco)	3440

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water - San Andres at approximately 500' Gas - Yeso at approximately 1100' Gas - Abo at approximately 3300'

4. Casing and Blowout Preventer Program

- Surface: 700' of 8-5/8", 24#, K55, ST&C new casing cemented with 240 sx LW + 100 sx "C" or volume sufficient to circulate cement to surface. Will nipple up 10" API 3000 WP braden head and install 10" API 3000 psi WP BOP stack (consisting of 1 pipe ram, 1 blind ram, and 1 bag type BOP) to drill 7-7/8" hole to total depth.
- Production: 3500' of 4-1/2", 10.5#, K55, ST&C new casing cemented with 310 sx LW + 360 sx 50/50 Poz or volume sufficient to raise top of cement to at least 700' (or base of surface casing). Choke, kill and fill lines are indicated on Exhbiit I. BOPs will be tested prior to drilling below the 8-5/8" casing. A full opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times. The kelly cock, safety valve, choke and kill lines will be tested at the same time that BOPs tests are run. Operations opening and closing checks on all BOPs will be run on each trip, with daily operational check of pipe rams.

Application for Drilling

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- 5. Circulating medium and control equipment.
 - 0 700' Use fresh water spud mud with fresh water gel and soda ash or lime treated with lost circulation material (cottonseed hulls, fiber and paper) as hole conditions dictate. If total loss of returns occurs, mix 2 or 3 viscous slugs with LCM and attempt to regain circulation. If unsuccessful, consider drilling without returns to casing point and spot 150+ bbls viscous slug treated with LCM on bottom to run pipe.
 - 700 2700' Drill out 8-5/8" casing with fresh water circulating reserve pit with additions of caustic soda for pH = 9.0 - 9.5 and chemicals for corrosion control. Mix paper, as needed, to control seepage and/or to sweep hole.
 - 2700 T.D. Go through steel pits utilizing above fluid with fine screen shaker and desilter to control solids. Maintain mud weight less than 10 1b/gal with additions of fresh water while keeping chloride - ion concentration cf 40,000-50,000 + ppm and KCL = 3%. At 2800' mud-up with starch and soda ash to control API water loss to 20-25 cc to T.D. Sea mud and salt water gel will be added to sweep hole or to raise viscosity of system sufficiently to clean hole to run logs and casing.
- 6. There is no coring program or drill stem tests planned for this well. The logging program may consist of a gamma ray log from total depth to surface, compensated neutron-density-caliper log and dual laterolog-micro spherically focused log run from 600' to total depth.
- 7. Maximum anticipated bottom hole pressure is 2100 psi at 3300' based upon bottom hole pressure gage on offset well. Mud weight required to offset this pressure is 7.0 ppg. It is probable that leaching of expected salt stringers could increase the mud weight to 10.0 - 10.2 ppg. Bottom hole temperature should not exceed 115°F. No sour gas is expected.
- Anticiapted spud date is August 18, 1980 with completion of drilling operations expected by August 25, 1980. Completion operations (perforations and stimulation) will immediately follow successful drilling operations.





