Form 9-331 C (May 1963)	_ N.	Maday <mark>da</mark> t		TRIPLICATE	Form approved. Budget Bureau No. 42-R1425.		
(17,	TED STATES	(Other 5n rever.	tions on de)	_		
	DEPARTMEN	T OF THE INT	TERIOR	c	30-015-23054 5. LEASE DESIGNATION AND SERIAL NO		
	NM-10774						
·····	ON FOR PERMIT			BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK	RILL X RE		PLUG B		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	CAS WELL OTHERN	ν 5 1979	SINGLE MUI	TIPLE []			
WELL 2. NAME OF OPERATOR	S. FARM OR LEASE NAME						
Robert N. E	nfield 🛩	o. c. c.			Mona Lisa Comm. 9. WELL NO.		
3. ADDRESS OF OPERATO	9. WELL NO. 1						
	31, Santa Fe, Ne				10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (At surface	White City Penn						
	FWL, 1650 FNL,	Sec. 18, T-25	-S, R-27-Е		11. SEC., T., B., M., OB BLK. AND SURVEY OB AREA		
At proposed prod. z	^{one} Morrow				Sec. 18, T-25-S, R-27-E		
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FFICE®		12. COUNTY OR PARISH 13. STATE		
	ith of Carlsbad				Eddy NM		
15. DISTANCE FROM PRO LOCATION TO NEARE	ST		. NO. OF ACRES IN LEASE	17. NO. 0 TO T	DF ACRES ASSIGNED		
(Also to nearest di 18. DISTANCE FROM PRO	LINE, FT. dg. unit line, if any) 165		159.02		637.88		
	DRILLING, COMPLETED,		PROPOSED DEPTH	20. BOTA	BY OR CABLE TOOLS		
21. ELEVATIONS (Show w		22. APPEOX. DATE WORE WILL START*					
3181.9	GR				11-15-79		
23.		PROPOSED CASING	AND CEMENTING PROC	RAM	1 11-15-79		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH				
27-1/2"	20"	94#,	440'	Circ	QUANTITY OF CEMENT		
17-1/4"	13-3/8"	54.5#	2100'		<u>cement to surface</u> cement to surface		
12-1/4"	9-5/8"	40# - 43.5#	8800'		Cement to surface		
	00')7" liner	26#	11000'		. Cement		
6-1/4 (11	00')4-1/2" line:	r 13.50#	11900'	Circ.	Cement		
If Hole Co	nditions Permit:			• .			
II HOLE CON	dicions reimit:						
1. Drill	l size hole and	set casing as	indicated abov	۹			
2. DST a	any shows of oil	and/or gas.					
				REC	EIVED		
	1 1	1-0					
^ (not dedice	led		OCT	9 1979		
gasis				U.S. GENLI	IGICAL SURVEY		
0				ARTESIA.	NEW MEXICO		
					ISEN WEVICO		
IN ABOVE SPACE DESCRIB	E PROPOSED PROGRAM : If]	proposal is to deepen o	r plug back, give data on	present produ	active zone and proposed new productive		
zone. If proposal is to preventer program, if an	arill or deepen directiona	lly, give pertinent dat	a on subsurface locations	and measured	and true vertical depths. Give blowout		
24.	AL	~					
SIGNED	DATE 10/8/79						
(This space for Fede	eral or State office use)						
PERMIT NO			APPROVAL DATE	2.79			
				:			
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY :	TITLE	· · · · · · · · · · · · · · · · · · ·		DATE		

• ·

*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 from the outer boundaries of the Section.

Operator	· · · · · · · · · · · · · · · · · · ·		Leas			· · · · · · · · · · · · · · · · · · ·					
ROBERT ENFIELD				Mona Lisa			Well No.				
Unit Letter	Section 18	Township 25 Sc	outh	Pange 27 East	County	Eddy					
Actual Footage Loc		•									
1650		North	une and	1660	leet from the	West	line				
Ground Level Elev. 3181.9	Producing For Morrow	mation	Pool	White Ci	ty Penn	Dec	dicated Acreage: 640 Acres				
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below RECEIVED											
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). NOV 5 1979 OCT 9 1979											
 If more that dated by c 	ommunitization, u	Intration, 10	rtesia; of	FICE		ARTESIA	DEICHL'SDRVERonsoli- NEW MEXICU				
Yes No If answer is "yes," type of consolidation <u>Communitization</u> If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization,											
forced-pool sion.	ing, or otherwise)	or until a non-	standard uni	t, eliminatin	g such interes	ts, has been app	proved by the Commis-				
R. N. Enfie	eld et al	En	field et	al 4 Gu	lf Oil	CE	RTIFICATION				
NM-20774		NM-	047,6505	/ NM-:	2 9 011	Toined herein	ly that the information con- is true and complete to the w jedge an g-beti ef.				
<u></u>			USA	x		Hamedard	M. Sofrico				
1660		En	field et		Care Statement	Robert N. Position Operator Compony	Enfielä				
		NM-	22071	 		Robert N. Date October 8					
·	USÁ I F	R. N. Enfie	USA ld et al	US/	·						
	ROT ENGINEER		M-19594			shown on this notes of actua under my supe	lfy that the well location plat was plotted from field il surveys made by me or rvision, and that the some orrect to the best of my belief.				
						Date Surveyed Octo Registered Profe and/or Land Surv					
0 330 660 9	10 1320 1650 1980	USA 2310 2840	2000 1				Willest ohn W. West 676				
			2000 1	500 1000	20Q 0		onald J. Eidson 3239				

N.M.O.C.D. COPY



United States Department of the Interior

NOV 5 1979

RECEIVED

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210

D. C. C.

November 2, 1979

Robert N. Enfield P. O. Box 2431 Santa Fe, New Mexico 87501 ROBERT N. ENFIELD Mona Lisa Comm No. 1 1650 FNL 1660 FWL Sec. 18 T.25S R.27E Eddy County Lease No. NM 10774 Above Data Required on Well Sign

Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 11,900 feet to test the Morrow is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.
- 2. 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 and these Conditions of Approval including the attached General Requirements.
- 3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should not be less than 8" x 5" in size and each page should identify the well.
- All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 5. Before drilling below the 13-3/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- 6. A kelly cock will be installed and maintained in operable condition.



- 7. After setting the 13-3/8" casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.
- 8. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Wolfcamp formation 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 losses.
 - (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.
- 9. Notify the Survey in sufficient time to witness the cementing of the 13-3/8" and 9-5/8" casing.
- 10. Cement behind the 20" and 13-3/8" casing must be circulated.
- 11. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

and and the stand and

George H. Stewart Acting District Engineer

ATTACHMENT "A"

SURFACE USE PLAN

Robert N. Enfield Mona Lisa Comm. No. 1 RECEIVED

OCT 9 **1979** U.S. Geolugical Survey Artesia, New Mexico

- 1. <u>Areal Road Map</u>: Attached topographic map shows the exixting road 300 feet due west of the location. We intend to build a road 300 feet due east to the southwest corner of the drilling pad.
- 2. Location of Existing Wells: The nearest existing well is over one mile northwest of the location.
- Proposed Well Mat: a. Mat Size: 285' x 220'.
 - Surface: Will be topped with 6' 8' of caliche, watered and compacted.
 Caliche will be purchased by dirt contractor.
 - c. Reserve Pit: 120' x 165' pit lined with plastic.
 - d. Cut and Fill: Nominal.
 - e. Drill Site Layout: Attachment shows position of equipment and pits at drill site.
 - f. Setting and Environment:
 (1) Terrain: flat. Attached topographic map.
 - (2) Soil: Sandy gypsum
 - (3) <u>Vegetation</u>: Sparse vegetation, being mostly semi-desert plants, with very little grass.
 - (4) Surface Use: Cattle grazing.
 - (5) Other: The location is a low environmental risk area.

g. Distances To:

- (1) Ponds and Streams: There are no surface waters within one mile.
- (2) Water Wells: There are no water wells within 1/2 mile.

Surface Use Plan Robert N. Enfield Mona Lisa Comm. No. 1

- (3) <u>Residences and Buildings</u>: There are no houses in the area of the location.
- (4) Arroyos, Canyons, Hills, Etc.: See attached topographic map.
- h. <u>Well Sign</u>: Sign identifying and locating well will be maintained at the drill site commencing with the spudding of the well.
- 1. Open Pits: All pits containing mud or other liquids will be fenced or guarded.
- 4. Roads:
 - a. Existing Roads: All existing roads within three miles of well site are shown on an attachment.
 - b. Planned Roads: 300 feet

- c. Fences, Gates and Cattle Guards: None Needed
- 5. <u>Tank Battery</u>: This is a gas prospect and no tank battery is anticipated.
- 6. <u>Lease Pipelines:</u> a. <u>Existing</u>: None
 - b. Planned: None
- 7. <u>Water Disposal</u>: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. A burn pit will be located adjacent, but separate, to the reserve pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away. Any produced water will be collected in tanks and hauled to an approved disposal system.
- 8. Water Supply: Water will be trucked from the nearest commercial source.
- 9. Archaeological Resources: None were observed.

ATTACEMENT "A" Surface Use Plan Robert N. Enfield Mona Lisa Comm. No. 1

- Restoration of Surface: If well is productive, pits will be backfilled and 10. leveled as soon as practical. The plastic pit liner will be placed in the bottom of the pit before backfilling. Upon final abandonment the well site will be leveled and cleaned and the road ripped, with land returned as near as practical to original condition.
- Operator's Representatives: Field personnel who can be contacted concerning 11. compliance of this Surface Use Plan are as follows:

Drilling and Production:

Home Phone - (915) 692-8907

Robert N. Enfield James F. O'Briant 306 Building of the Southwest Midland, Texas 79701 OR Office Phone - (915) 683-5511

P. O. Box 2431 Santa Fe, New Mexico 87501

Office Phone - (505) 988-2863 Home Phone - (505) 982-0092

12. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed 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 Robert N. Enfie-d and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Robert N. Enfield, Operator

ATTACHMENT "B"

SEVEN-POINT PLAN FOR WELL CONTROL

Robert N. Enfield Mona Lisa Comm. No. 1

- 1. Surface Casing: 20', 94# per foot, set at approximately 440' cemented to the surface.
- Casinghead Flanges: 20" upper flange, series 600, 2,000 psi working pressure; 12" upper flange, series 900, 3,000 psi working pressure; 11' upper flange, series 1500, 5,000 psi working pressure.
- 3. Intermediate Casing: 13-3/8", 54.5# per foot. Set at 2100' and circulated to surface; 9-5/8", 40-43.5# per foot. Set at 8800' and circulated to surface.
- 4. Blowout Preventers: Refer to attachment.
- 5. Auxiliary Equipment: A choke manifold along with normal equipment associated with a rig of this size.
- 6. Anticipated Bottom Hole Pressures: 7000 psi based on pressure gradients established from drillstem tests of other wells in the area.
- 7. Drilling Fluid:

Surface: fresh water spud mud 13-3/8": Sat. brine 9-5/8": fresh water mud with loss circulation material 7" liner: salt water mud 4½" liner: salt water mud with brine



14/-22



