

April 18, 1983

Mr. R. L. Stamets
Energy and Minerals Department
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

*NSL 1688
Rule 104 F
No offsets
Immediate*

Dear Mr. Stamets:

Subject: Unorthodox location in the
West Pecos Slope ABO Gas Pool for
Mesa Petroleum Co.
China Federal #15
1444' FSL & 1950' FWL
Sec 19, T7S, R23E

Application is hereby ~~made~~ for administrative approval of an unorthodox location for subject well due to geology and topography.

Exhibit I is the Form C102 showing mineral lease holder for the proposed proration unit, Exhibit II is a topographic plat showing the area in question, Exhibit III is a statement by the area Geologist supporting the subject location and Exhibit IV is a land plat showing that MTS Limited Partnership (Mesa Petroleum Co., general partner and operator) is the holder of offset leases.

Expeditious handling of this request is greatly appreciated.

Yours truly,

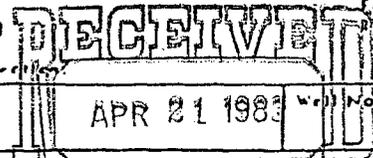
R. E. Mathis
Regulatory Coordinator
Onshore Operations Division

ch

attachments

XC: NMOCDA, BLM-R, CEN RCDS, OPS(FILE), MIDLAND, ROSWELL, PARTNERS

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



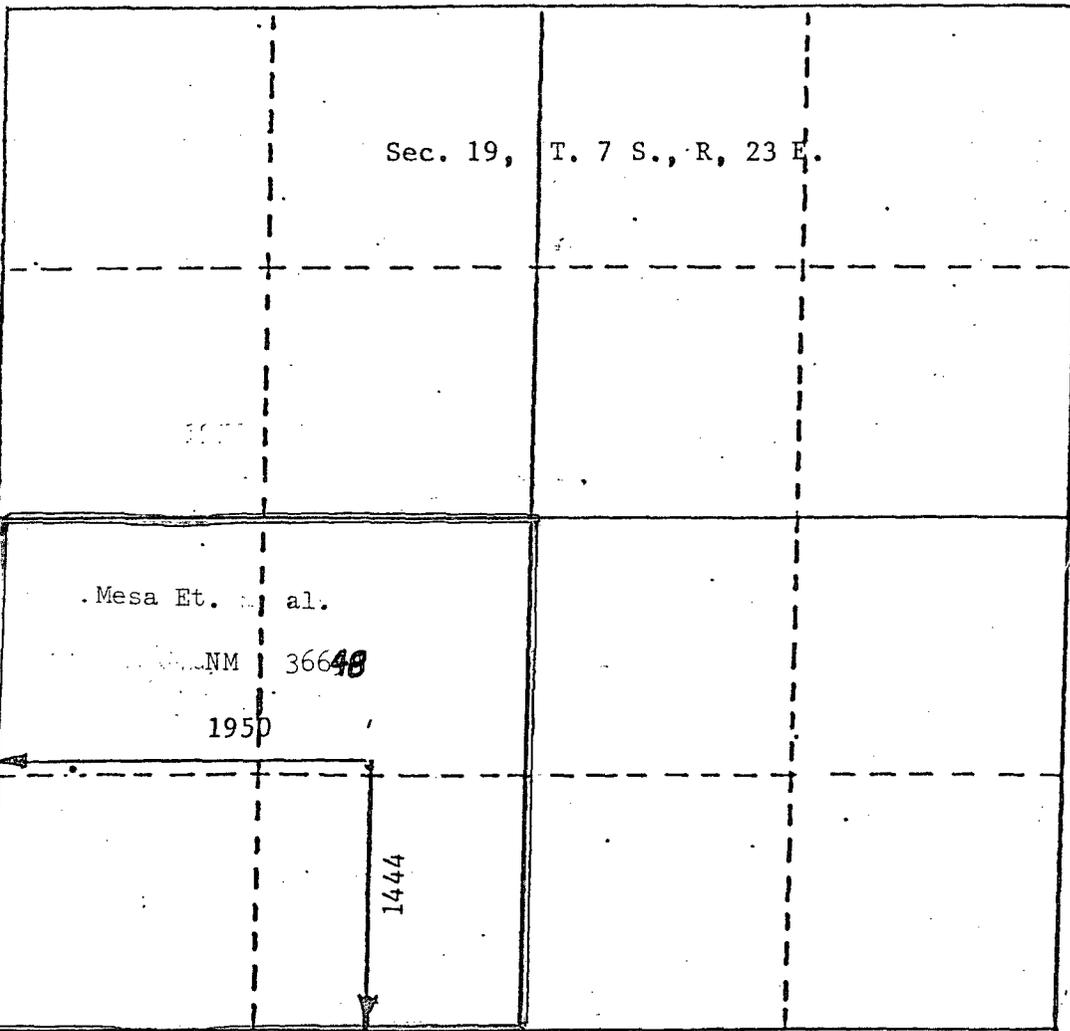
Operator Mesa Petroleum Co.,		Lease China Federal		APR 21 1983		Well No. 15
Unit Letter K	Section 19	Township 7 South	Range 23 East	County Chaves		
Actual Postage Location of Well: 1444 feet from the South line and 1950 feet from the West line						
Ground Level Elev. 3958	Producing Formation ABO		Pool West Pecos Slope ABO	Dedicated Acreage: SW $\frac{1}{4}$ 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

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-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Lloyd Reed
Name

Lloyd Reed
Position

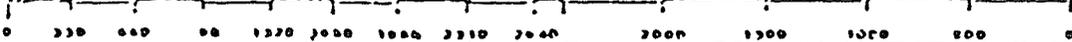
Regulatory Agent
Company

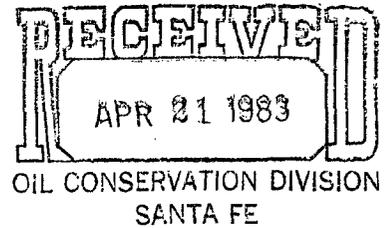
Mesa Petroleum Company
Date

April 14, 1983

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

JOHN D. JAQUESS
Date Surveyed
4-13-83
Registered Professional Engineer
and Surveyor
John D. Jaquess, P.E. & L.S.
Certificate No. 6290





GEOLOGIC CONDITIONS REQUIRING UNORTHODOX LOCATION

Mesa China Fed #15
SW/4 Section 19, T7S, R23E
Chaves County, New Mexico

The only area within the 160 acre unit (comprising the southwest quarter of Section 19, T7S, R23E, Chaves County, New Mexico) where Mesa believes that an economic well could be drilled is in the northeast quarter of the southwest quarter. Within the NE/4 of the SW/4 Section 19, the only topographically feasible location is 1444 feet from the south line and 1950 feet from the west line of Section 19.

Furthermore, the only legal location within the 160 acre unit that is topographically feasible (990 feet from the south line and 990 feet from the west line of Section 19) is projected by Mesa to not be underlain by economically producible Abo sandstones.

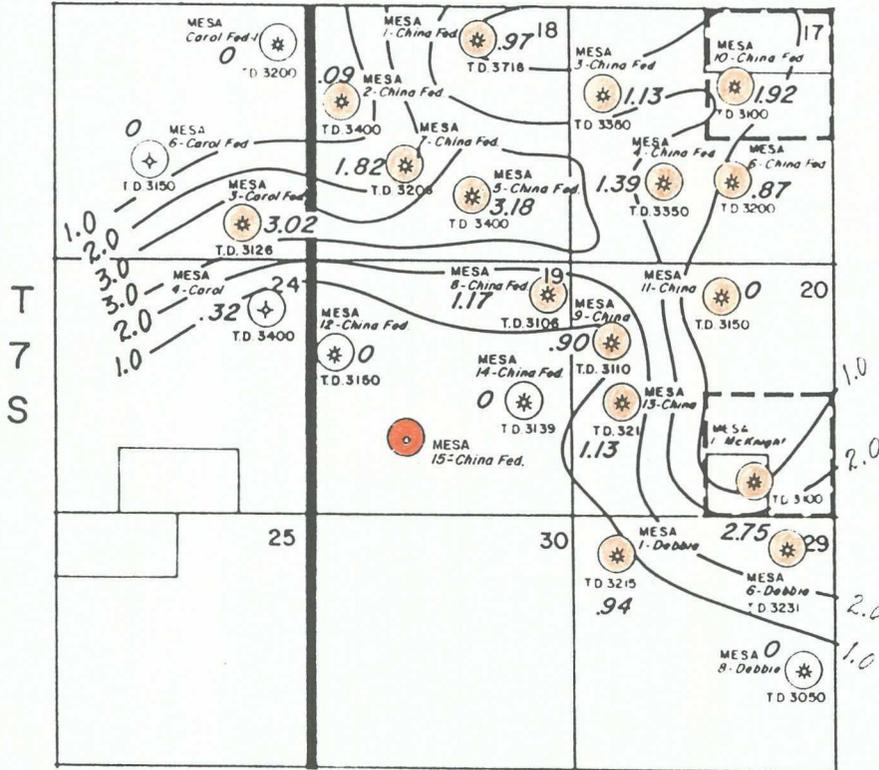
This geologic interpretation is shown on the attached porosity-feet isopachs ((porosity-feet = (feet sandstone x porosity) ÷ 100)). Wells that penetrated Abo sandstones having thickness/porosity characteristics similar to those interpreted for the southwest quarter of the southwest quarter of Section 19 have not had economic quantities of gas: for example, Mesa Carol Fed #6, SW/4 Section 13, T7S, R22E and Mesa Carol Fed #4, NE/4 Section 24, T7S, R22E. Both wells were plugged and abandoned. The Mesa Debbie Fed #1, NW/4 Section 29, T7S, R23E, had a calculated absolute open flow of only 600 MCFPD. The well is shut in and not expected to payout its drilling and completion costs.

Edith Campbell

Edith Campbell
Exploitation Geologist
Mesa Petroleum Co.

R 22 E

R 23 E



PRODUCTION LEGEND :

○ Abo 'A'



MESA
PETROLEUM CO.



ONSHORE OPERATIONS DIVISION

PECOS SLOPE PROSPECT

Chaves County, New Mexico

Abo 'A' Zone

ISOPACH

Porosity - Feet

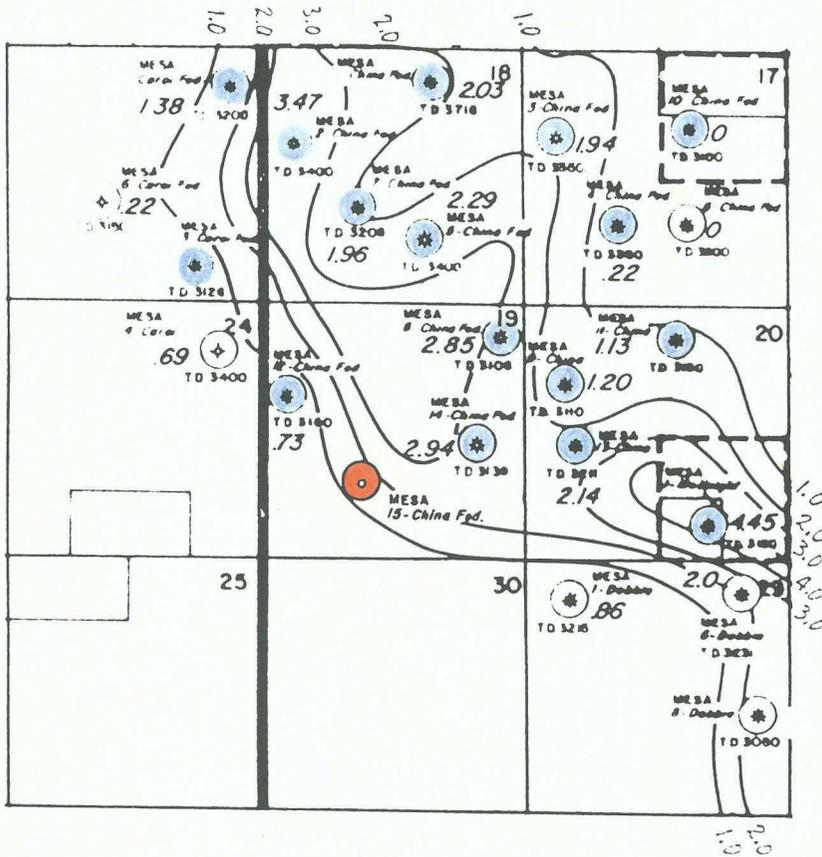
BY E. CAMPBELL
DATE 4-1-83

DRAWN BY B. HUBBARD
SCALE 1" = 4000'

R 22 E

R 23 E

T
7
S



PRODUCTION LEGEND :

● Abo 'B'



MESA
PETROLEUM CO.



ONSHORE OPERATIONS DIVISION

PECOS SLOPE PROSPECT

Chaves County, New Mexico

Abo 'B' Zone

ISOPACH

Porosity - Feet

BY E CAMPBELL

DRAWN BY B HUBBARD

DATE 4-1-83

SCALE 1" = 4000'

"McKnight Fed"
U.S.

Levin & Marvin Wolf
7 LG-5573
50 6
Transwestern
2-Nacha St.

33

MYO
7
T...

U.S.	State	U.S.	State	U.S.	State
1 Exxon Corp. 12-1-11 2 1501.41	1 Public Lds. Expl. 9-1-89 36653 0080	2 Fred Pool 6-15-89 Lillian Crane et al	3 Public Lds. Expl. 9-1-89 36641 0087	4 Public Lds. Expl. 9-1-89 36647 0087	5 Yates Pert, et al 8-1-89 LG-4574 952
6 State	7 U.S. 130.89/401.2	8 J.M. McKnight 170.417 "Macho" 524036 Fed. U.S. 5	9 "Macho Fed." 208.052/ U.S. 1640.16	10 State	11 State
12 Mrs. A.C. Williams et al	13 Mrs. A.C. Williams, 5/8 Roberta E. Dorothy Williams	14 J.M. McKnight 22.45 84.71 80	15 F. Hirtzel 44583 3-91	16 Florence McKnight et al	17 Florence McKnight
18 U.S. 209/640	19 U.S. 195/600	20 U.S. 131.4903/404.61	21 "Macho Fed." 104/320 U.S.	22 "Round Up" 208/640 State	23 State
24 Public Lds. Expl. 9-1-89 36633 0080	25 Public Lds. Expl. 9-1-89 36633 0080	26 Mesa Pert. (MTS 1/2) (Public Lds. Expl.) 9-1-89 36647 0084 HBP	27 Public Lds. Expl. 9-1-89 36648 0084 HBP	28 Public Lds. Expl. 9-1-89 36648 0084 HBP	29 Yates Pert, et al 8-1-89 LG-4573 3518
30 U.S. 209/640	31 U.S. 195/600	32 "China Fed." 649.48 U.S.	33 "China Fed." 182/560 U.S.	34 State	35 State
36 Pioneer Prod. Corp. 36483	37 U.S. 195/600	38 Yates Pert, et al 10-1-80 LG-4583 16189 State	39 Yates Pert, et al 10-1-80 LG-4583 16189 State	40 State	41 State
42 U.S. 149/440	43 U.S. 182/560	44 U.S. 211.315/650.2	45 U.S. 195/600	46 State	47 State
48 Public Lds. Expl. 1/2 9-1-89 36709 0081	49 Public Lds. Expl. 1/2 9-1-89 36653 0080	50 Public Lds. Expl. 1/2 9-1-89 36644 0085	51 Public Lds. Expl. 1/2 9-1-89 36644 0085	52 Yates, et al 8-1-89 LG-4583 3749	53 Yates, et al 8-1-89 LG-4583 3749
54 U.S. 149/440	55 U.S. 182/560	56 U.S. 211.4385/650.58	57 U.S. 209/640	58 State	59 State
60 Public Lds. Expl. 1/2 9-1-89 36709 0081	61 Public Lds. Expl. 1/2 9-1-89 36644 0085	62 Public Lds. Expl. 1/2 9-1-89 36644 0085	63 Public Lds. Expl. 1/2 9-1-89 36644 0085	64 Yates, et al 8-1-89 LG-4583 3749	65 Yates, et al 8-1-89 LG-4583 3749