

# J. M. HUBER CORPORATION

OIL AND GAS DIVISION

SUITE 232

7120 I-40 WEST AMARILLO, TEXAS 79106

OIL CONSERVATION DIVISION  
RECEIVED

'90 MAR 15 AM 8 41

MID-CONTINENT DISTRICT OFFICE

March 12, 1990

(806) 353-9837

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Michael Stogner

RE: Superior State No. 2  
Morton Wolfcamp Field  
Lea County, New Mexico  
L-7-15-35  
NGPA Section 103  
Price Determination

Gentlemen:

The estimated ultimate recovery (EUR) of casinghead gas from the subject well is being provided as requested in your telephone conversation with Huber's Larry Wilson on March 12, 1990. This should satisfy the information requirements for a NGPA Section 103 price determination for Superior State No. 2. (RE: Letter from Huber to NMOCD dated June 21, 1989).

The estimated ultimate recovery of casinghead gas for the subject well is 123,000 MCF, based on the EUR of 80,000 BO documented in the June '89 letter.

If you need additional information please call Bill Horne or Bob Cornelius at (806) 353-9837.

Very truly yours,

J. M. HUBER CORPORATION

*Robert R. Glenn*

Robert R. Glenn  
District Production Manager

WGH/pt  
Attachment

# J. M. HUBER CORPORATION

OIL AND GAS DIVISION

SUITE 232

7120 I-40 WEST AMARILLO, TEXAS 79106

MID-CONTINENT DISTRICT OFFICE

June 21, 1989

(806) 353-9837

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico  
Attn: Michael Stogner

Re: Superior State No. 2  
Morton Wolfcamp Field  
Lea County, New Mexico  
L-7-15-35  
NGPA Section 103  
Price Determination

Gentlemen:

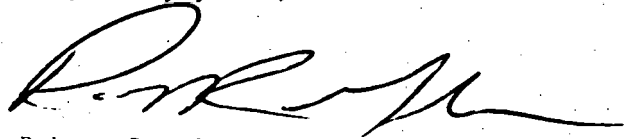
J. M. Huber Corporation requests that an amendment to Division Administrative Order No. NFL-102 be made to include the Superior State No. 2. This request is in response to your letter dated 7-11-85 (attached) and subsequent phone conversations regarding the subject filing.

The Cabot State "Q" No. 1, located 660' FWL & 1980' FSL, Section 7, T-15-S, R-35-E, was originally drilled by McAllister Fuel in 1956, and was subsequently plugged following no substantial oil recovery. Cabot Corporation re-entered the well in 1965, and following the unsuccessful testing of the Strawn and Lower Wolfcamp zones, completed the well in the Upper Wolfcamp from 10,304'-371'. The zone produced 21,719 BO, 31 MMCF of gas, and 44,600 barrels of water over a five year period. The well was plugged by Cabot Corporation in 1970. J. M. Huber Corporation re-entered the well in September, 1981. Huber ran 5-1/2" casing and tied back into the 5-1/2" production casing at 8740'. The well was not able to produce commercial quantities of oil or gas from the Wolfcamp formation. Having no remedial potential, the well was plugged back to 6200' and converted to salt water disposal in June, 1985. The well is presently being used as a SWD well in the San Andres formation from 5628' to 6050'.

The Superior State No. 2, located 1980' FSL & 810' FWL, Section 7, T-15-S, R-35-E, was spudded 8-17-84 and completed 9-24-84. Cumulative production as of January 1, 1987 was 44,781 BO and 46,870 MCF. The well is presently pumping 16 BOPD and 486 BWPD. The ultimate recovery for the well is estimated to be approximately 80 MBO, based on decline curve analysis and the water cut versus cumulative production curve (see attachments). The Wolfcamp reserves for the Superior State No. 2 could not have been recovered by the Cabot State "Q" No. 1 prior to the abandonment of the Wolfcamp zone in 1985.

If you need additional information, please call Bill Horne at (806) 353-9837.

Very truly yours,

A handwritten signature in black ink, appearing to read 'R. R. Glenn', with a stylized flourish at the end.

Robert R. Glenn  
District Production Manager

WGH/caj  
Attachments

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

March 12, 1990

J.M. Huber Corporation  
2000 W. Loop South  
Midland, TX 79701

Attention: Larry Wilson

Administrative Order NFL-102-A

Dear Ms. Wilson:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and the Oil Conservation Division Order No. R-6013 for the following described well:

Superior State Well No. 2 located 1980 feet from the South line and 810 feet from the West line (Unit L) of Section 7, Township 15 South, Range 35 East, NMPM, Lea County, New Mexico.

**THE DIVISION FINDS THAT:**

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling that subsequent wells are necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Morton Wolfcamp Pool, and the standard spacing unit in said pool is 80 acres.

(4) A standard 80-acre oil proration unit comprising the N/2 SW/4 of said Section 7 is currently dedicated to the Superior State Well No. 1 located in Unit K of said Section 2; however, at the time the Superior State Well No. 2 was spudded, August 17, 1984, the applicant's Cabot "Q" State Well No. 1, located 1980 feet from the South line and 560 feet from the West line (Unit L) of said Section 7, was listed as a shut-in Morton Wolfcamp oil well.

(5) The Cabot "Q" State Well No. 1 was originally drilled by McAllister Fuel in 1956, and was subsequently plugged following no substantial oil recovery. Cabot Corporation re-entered the well in 1965, and following the unsuccessfully testing of the Pennsylvanian zone, completed the well in the Morton Lower Wolfcamp Pool from 10,304'-371'. The zone produced 21,719 BO, 31 MMCF of gas and 44,600 barrels of water over a five year period. The well was plugged by Cabot Corporation in 1970. J.M. Huber Corporation re-entered the well in September, 1981. Huber ran 5-1/2" casing and tied back into the 5-1/2" production casing at 8740'. The well was not able to produce commercial quantities of oil or gas from the Wolfcamp formation. Having no remedial potential, the well was plugged back to 6200' and converted to a salt water disposal well in June, 1985. The well is presently being used as a SWD well in the San Andres formation from 5628' to 6050'.

(6) The drilling and completion of the well for which a finding is sought should result in the production of an additional 123,000 MCF of gas from the proration unit which would not otherwise be recovered.

(7) All the requirements of Division Order No. R-6013 have been compiled with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(8) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

**IT IS THEREFORE ORDERED THAT:**

(1) The applicant is hereby authorized to drill the Superior State Well No. 2 as described above, as an infill well on the existing 80-acre oil proration unit comprising the N/2 SW/4 (Unit L) of Section 7, Township 15 South, Range 35 East, NMPM, Morton Wolfcamp Pool, Lea County New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

Administrative Order NFL-102-A  
J.M. Huber Corporation  
March 12, 1990  
Page 3

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael E. Stogner".

Michael E. Stogner  
Examiner

MES/ag

cc: Oil Conservation Division - Hobbs  
New Mexico State Land Office - Santa Fe



SANTA FE, NEW MEXICO 87501

APPLICATION FOR WELLHEAD  
PRICE CEILING CATEGORY DETERMINATION

## 1. FOR DIVISION USE ONLY:

DATE COMPLETE APPLICATION FILED February 28, 1984DATE DETERMINATION MADE November 15, 1984WAS APPLICATION CONTESTED? YES ☐ NO ☒

NAME(S) OF INTERVENOR(S), IF ANY:

FEB 28 1984

OIL CONSERVATION DIVISION  
SANTA FE

5A. Indicate Type of Lease

STATE ☒ FEDERAL ☐

5. State Oil &amp; Gas Lease No.

L-6690

7. Unit Agreement Name

8. Farm or Lease Name

Superior State

9. Well No.

1

10. Field and Pool, or Wildcat  
Morton Wolfcamp

12. County

Lea

2. Name of Operator

J. M. Huber Corporation

3. Address of Operator

2000 West Loop South, Houston, Texas 77027

4. Location of Well

UNIT LETTER K LOCATED 1980 FEET FROM THE South LINEAND 1980FEET FROM THE West LINE OF SEC. 7 TWP. 15S RGE. 35E NMPM

5. Name and Address of Purchaser(s)

Warren Petroleum Company, P. O. Box 1589, Tulsa, Oklahoma 74102

## WELL CATEGORY INFORMATION

Check appropriate box for category sought and information submitted.

1. Category(ies) Sought (By NGPA Section No.) 103 - New, Onshore Production Well

2. All Applications must contain:

- ☒ a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK  
☒ b. C-105 WELL COMPLETION OR RECOMPLETION REPORT  
☐ c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111  
☒ d. AFFIDAVITS OF MAILING OR DELIVERY

3. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules for Applications For Wellhead Price Ceiling Category Determinations" as follows:

A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)

☐ All items required by Rule 14(1) and/or Rule 14(2)

B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)

☐ All items required by Rule 15

C. NEW ONSHORE PRODUCTION WELL

C-102 Well Location and Acreage

☒ All items required by Rule 16A or Rule 16B Dedication Plat

D. DEEP, HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS

☐ All items required by Rule 17(1) or Rule 17(2)

E. STRIPPER WELL NATURAL GAS

☐ All items required by Rule 18HEREBY CERTIFY THAT THE INFORMATION CONTAINED  
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE AND BELIEF.

J. M. HUBER CORPORATION

NAME OF APPLICANT (Type or Print)

By W. Joseph Kent  
SIGNATURE OF APPLICANTW. Joseph Kent  
AttorneyDate February 10, 1984

## FOR DIVISION USE ONLY

☒ Approved☐ DisapprovedThe information contained herein includes all  
of the information required to be filed by the  
applicant under Subpart B of Part 274 of the  
FERC regulations.

EXAMINER



SE

**J. M. HUBER CORPORATION**

OIL AND GAS DIVISION  
SUITE 232  
7120 I-40 WEST AMARILLO, TEXAS 79106

*Bill Horn*  
**RECEIVED**

*for any  
technical  
data*

MID-CONTINENT DISTRICT OFFICE

June 21, 1989

JUN 27 1989

(808) 353-9837

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico  
Attn: Michael Stogner

OIL CONSERVATION DIV.  
SANTA FE

Re: Superior State No. 2  
Morton Wolfcamp Field  
Lea County, New Mexico  
L-7-15-35  
NGPA Section 103  
Price Determination

Gentlemen:

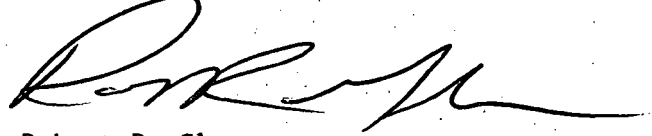
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If you need additional information, please call Bill Horne at (806) 353-9837.

Very truly yours,

A handwritten signature in black ink, appearing to read "Robert R. Glenn", with a stylized, flowing script.

Robert R. Glenn  
District Production Manager

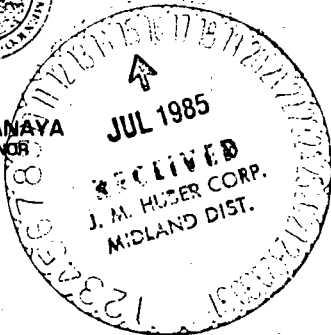
WGH/caj  
Attachments



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

July 11, 1985

TONY ANAYA  
GOVERNOR



POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

J. M. Huber Corporation  
1900 Wilco Building  
Midland, Texas 79701

Attention: Robert R. Glenn  
District Production Manager

Re: NGPA Section 103 Application  
Superior State Well No. 2  
L-7-15S-35E

Dear Mr. Glenn

Pursuant to Rule 13 of Division Order No. R-5878, as amended, the subject well is an infill well to your Cabot "Q" State Well No. 1. The promotion unit is dedicated to the Cabot "Q" Well until such time as it is either plugged and abandoned or plugged back to another interval. Granted the situation in the N/2 SW/4 of said Section 7 is somewhat complex, an Infill-Well Finding was issued to your Superior State Well No. 1 located in Unit K, therefore I am requesting that an amendment to Division Administrative Order No. NFL-102 be filed to include the subject well. This should satisfy the requirements of the FERC for an NGPA Section 103 determination for the subject well.

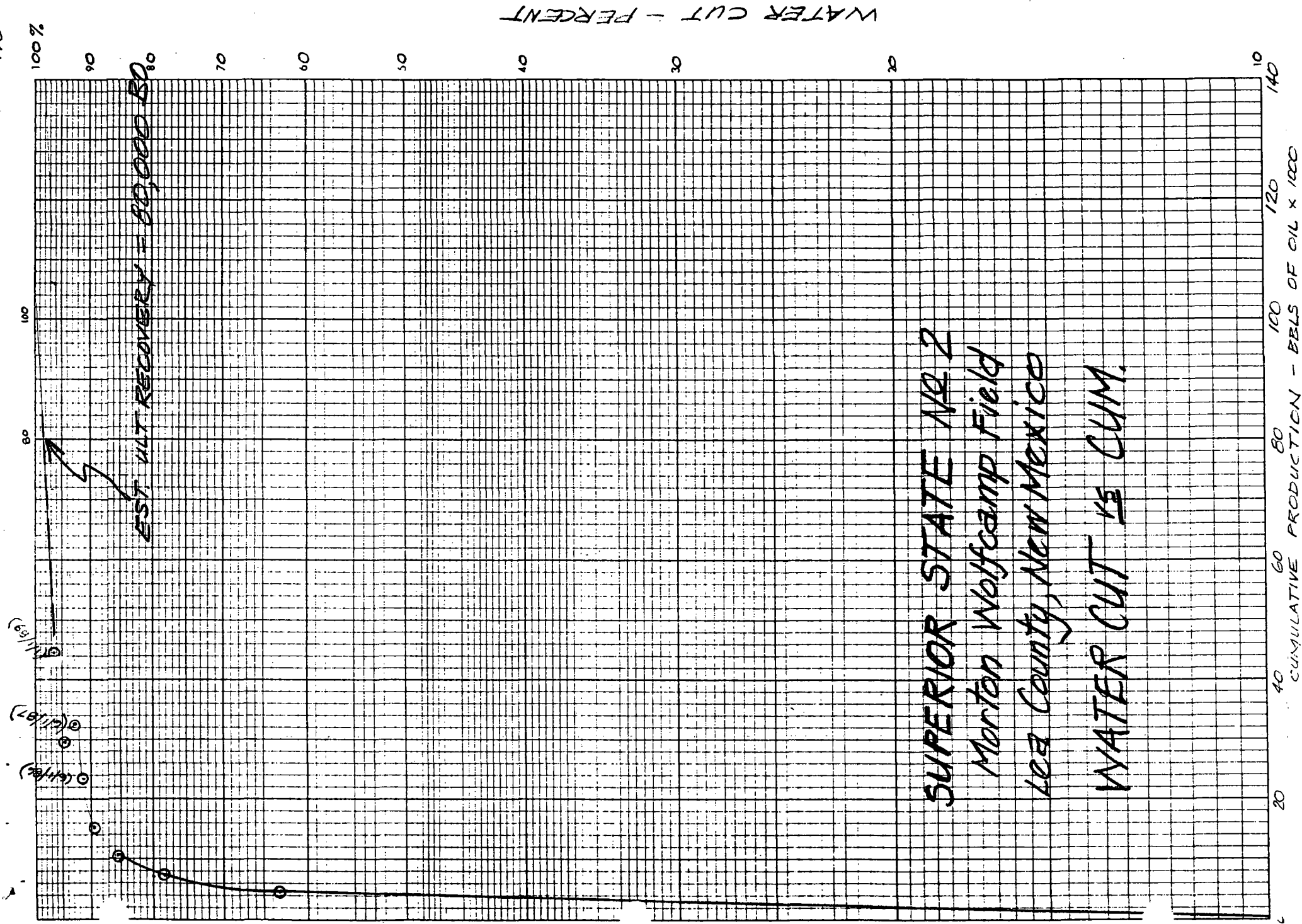
If you should have any questions concerning this matter, please contact me.

Sincerely

Michael E. Stogner  
Acting Chief Engineer

MES/et

1986



Operator (#340372)	Lease name	Well #
HUBER J M CORP	SUPERIOR STATE	000002

Ident. #	State	Dist	County	Location	Lse/tax /unit #
15S35E07LM1WC	NM(30)	002	025 LEA	7L 15S 35E	961

API #	Field (#008052974)	Reservoir
30-025-00000	MORTON WOLFCAMP	WC

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
0	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	8409 8902	0	ACT

Cumulative gas MCF	Since	Gas Gravity	Gas Gatherer
48354	FP Date	0.00	

Cumulative liquid BBL	Since	Liquid Gravity	Liquid Gatherer
44336	FP Date	0.00	PERMI

Dwight's Energydata, Inc. DLOOK 4.17  
 Production data from file: cabot.dmp  
 Lease: SUPERIOR STATE

Record # 2

Run date: 06/19/89

Retrieval code: 150,025,15S35E071

Well #: 000002

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	0	0	0	0	0	1
February	0	0	0	0	0	1
March	0	0	0	0	0	1
April	0	0	0	0	0	1
May	0	0	0	0	0	1
June	0	0	0	0	0	1
July	0	0	0	0	0	1
August	0	0	0	0	0	1
September	1361	1361	1	1	0	1
October	0	1361	1688	1689	0	1
November	2296	3657	2594	4283	0	1
December	2395	6052	2508	6791	0	1
Total 1984	6052	6052	6791	6791	0	1
January	2050	8102	1345	8136	7447	1
February	1148	9250	1062	9198	0	1
March	1105	10355	1219	10417	8288	1
April	1072	11427	1053	11470	7455	1
May	918	12345	1379	12849	8488	1
June	940	13285	1307	14156	7206	1
July	803	14088	988	15144	8327	1
August	724	14812	987	16131	8972	1
September	656	15468	666	16797	9405	1
October	675	16143	662	17459	10285	1
November	726	16869	691	18150	10209	1
December	739	17608	627	18777	9851	1
Total 1985	11556	17608	11986	18777	95933	1
January	657	18265	1505	20282	9572	1
February	821	19086	894	21176	6670	1
March	874	19960	819	21995	9061	1
April	785	20745	1012	23007	8964	1
May	813	21558	999	24006	8665	1
June	1099	22657	1145	25151	7651	1
July	712	23369	989	26140	5625	1
August	893	24262	1007	27147	5046	1
September	540	24802	652	27799	2981	1
October	1212	26014	1575	29374	0	1
November	796	26810	830	30204	5179	1
December	565	27375	584	30788	10270	1
Total 1986	9767	27375	12011	30788	79684	1
January	582	27957	418	31206	9099	1
February	806	28763	450	31656	8606	1
March	615	29378	138	31794	7112	1
April	622	30000	601	32395	9371	1
May	557	30557	351	32746	9987	1
June	639	31196	587	33333	9688	1
July	798	31994	879	34212	10459	1

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
August	894	32888	861	35073	13026	1
September	757	33645	873	35946	12583	1
October	901	34546	772	36718	14898	1
November	979	35525	1181	37899	15428	1
December	484	36009	883	38782	0	1
Total 1987	8634	36009	7994	38782	120257	1
January	861	36870	696	39478	16302	1
February	695	37565	594	40072	15254	1
March	767	38332	751	40823	0	1
April	888	39220	991	41814	15871	1
May	531	39751	472	42286	4135	1
June	517	40268	400	42686	0	1
July	587	40855	714	43400	19093	1
August	511	41366	367	43767	18281	1
September	667	42033	706	44473	19748	1
October	336	42369	627	45100	13667	1
November	503	42872	892	45992	0	1
December	548	43420	814	46806	21734	1
Total 1988	7411	43420	8024	46806	144085	1
January	502	43922	757	47563	21060	1
February	414	44336	791	48354	16947	1
Total 1989	916	44336	1548	48354	38007	1

$$\underline{\underline{= 79,981 \text{ BO}}}$$

$$\text{EST. ULT. RECOVERY} = 44,781 + 35,200$$

$$\text{CUM. PROD.} = 44,781 \text{ BO}$$

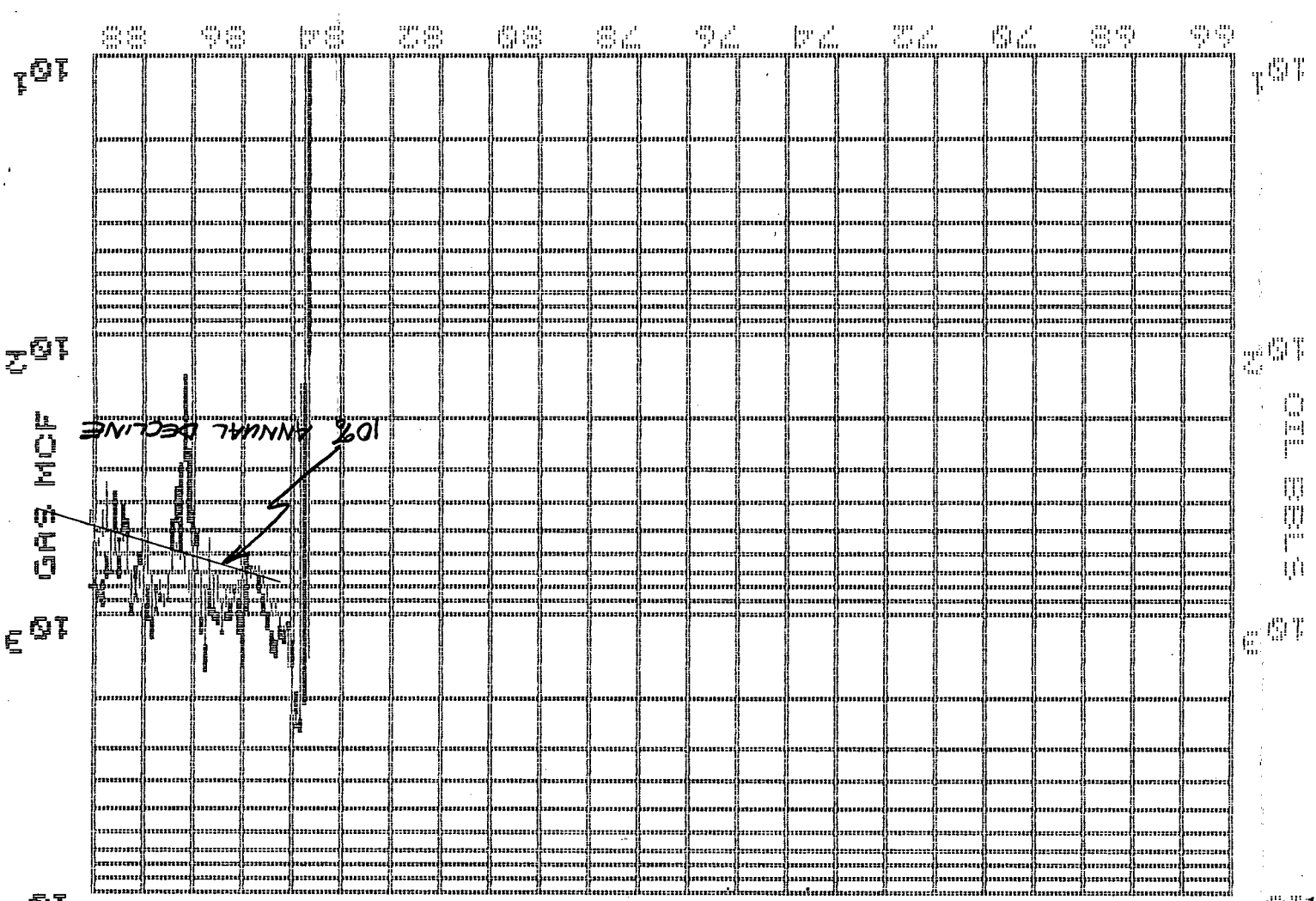
$$\text{LIFE} = 9.4 \text{ yrs}$$

$$\text{RESERVES} = 35,200 \text{ BO}$$

$$\text{DECLINE RATE} = 10\%$$

$$\text{FINAL RATE} = 188 \text{ BOPM}$$

$$\text{INITIAL RATE} = 486 \text{ BOPM}$$



SUPERIOR STATE NO. 2

SEMI-LOG GRAPH



CONTINUED MOORE PERMO-PENNSYLVANIAN

PAGE 399

WELL S T R JAN FEB MAR APRIL MAY JUNE JULY AUG SEPT OCT NOV DEC 1984 PROD HP ACCUM

SANCOAN OIL CORPORATION

2F2511532E OIL	44	228		166	178	133			116	318	28	21	1384	771
JOHN H MOORE OIL	110													
1E2511532E OIL														19515
PLUGGING APPROVED 1980														
COMPANY TOTAL OIL	110	228		166	178	133			116	318	28	21	1384	20286

TERACO INCORPORATED (CAPROCK DISTRICT)

JOHN H MOORE OIL	166	1039	1036	1039	731	731			859	1123	3229	3219	1913	12867
302511532E OIL	450	3683	3683	1875	100378	3900								
NEW HERRICK OIL														43206
182611532E OIL														241
PLUGGING APPROVED 1957														
COMPANY TOTAL OIL	166	1039	1036	1039	731	731			859	1123	3229	3219	1913	56316
STATE OIL	450	3683	3683	1875	100378	3900								

TERACO INCORPORATED (MOUNTAIN DISTRICT)

1A2511532E OIL														2048
CONVERTED TO SMD														
1A2611532E OIL														2016
PLUGGING APPROVED 1952														
COMPANY TOTAL OIL														20984

MORTON PERMO PENN. NORTH

PP 10N TO 11N

ELK OIL COMPANY

1E3614534E OIL	399	189	398	362	123	225	129	323	129	178	189	188	3239	35995
ANDERSON STATE														
1P2614534E OIL	17	82	17	188	80	188	188	188	188	200	108			26498
UNION STATE	1268	284	142	188	80	188	188	188	188					
1N2514534E OIL	753	549	756	734	362	336	339	380	387	922	933	922	7022	182966
COMPANY TOTAL OIL	1182	828	998	2084	1084	1211	1588	1862	1868	270	322	322	18938	243459
STATE OIL	1268	284	142	188	80	188	188	188	188					

FEATHERSTONE DEVELOPMENT CORPORATION

ANDERSON STATE OIL														148091
PLUGGING APPROVED 1974														
MOBIL STATE OIL														272444
PLUGGING APPROVED 1975														
TENNECO FEDERAL OIL														14007
PLUGGING APPROVED 1974														

COMPANY TOTAL OIL

434562

OLEN C. FEATHERSTONE

1A2914535E OIL														1304
PLUGGING APPROVED 1972														
HUMBLE OIL														1727
CONVERTED TO SMD														
COMPANY TOTAL OIL														3031

TENNECO OIL COMPANY

1G3114535E OIL														30634
PLUGGING APPROVED 1973														
MAXWELL OIL														46881
PLUGGING APPROVED 1971														
COMPANY TOTAL OIL														77515

WAGNER AND BROWN

1J3114535E OIL	393	318	505	449	351	327	322	586	589	540	591	542	3232	302536
ANDERSON STATE														
1J3114535E OIL	21390	19530	28830	27900	28830	27900	28095	31868	32895	31868	30840	31868	341814	5897

MORTON WOLFCAMP

NC 10N TO 11N

COBBI CORPORATION

1J15535E OIL														21719
PLUGGING APPROVED 1974														

GREAT WESTERN DRILLING COMPANY

1G15535E OIL	457	512	263	311	233	243	402	301	366	649	370	313	3022	25527
ANDERSON STATE														
1G15535E OIL	3118	1196	1207	1878	4363	4316	4365	1182	4810	4626	4439	2680	48190	5809
2J 715535E OIL									840	1601	1820	1539	5809	5809
STATE OIL									4441	4840	6023	10081	28427	
1G1815535E OIL														1629
LAST PROD. DATE 12/83														
COMPANY TOTAL OIL	457	512	263	311	233	243	402	301	366	649	370	313	3022	32965
STATE OIL	3118	1196	1207	1878	4363	4316	4365	1182	4810	4626	4439	2680	48190	5809

PEAK OIL CORPORATION

1A1215534E OIL														26856
PLUGGING APPROVED 1969														

JAMES HUBER CORPORATION

1A15535E OIL	322	268	273	273	159	159	194							2030
JAMES O'NEILL OIL	1638	1317	1377	1188	3790	2162	1184	1600	1297	1118	1028	16789	62459	
3F 715535E OIL					374	2162	2265	1697	8166	6138	4492	30184	14668	
JAMES O'NEILL STATE COM	823	292	306	285	368	373	710	590	621	918	1220	12336	6249	
2C 715535E OIL	823	292	306	285	368	373	710	590	621	918	1220	12336	6249	
STOLTZ FEDERAL OIL	823	292	306	285	368	373	710	590	621	918	1220	12336	6249	
1J1215534E OIL	1839	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	663265
201 215534E OIL	1839	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	66448
201 215534E OIL	2194	2182	2179	2182	2179	2182	2179	2182	2179	2182	2179	2182	2179	22594
STOLTZ STATE OIL														
CONVERTED TO SMD														
1A 715535E OIL	131	270	307	339	309	281	1017	3033	4322	3683	3392	4137	18942	37862
2L 715535E OIL														
SUPERIOR A STATE OIL														6052
IN 715535E OIL														
COMPANY TOTAL OIL	3795	3299	3321	3028	3227	2970	7788	10988	18719	7793	1768	18938	18938	934234
STATE OIL	1839	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	

UNION OIL COMPANY OF CALIFORNIA

1P1215534E OIL														14494
PLUGGING APPROVED 1973														
FEDERAL OIL	251	763	182	681	736	637	535	711	622	881	373	1283	6988	582241
1P1215534E OIL	24552	22948	7928	17400	15600	18800	16800	16200	18800	18600	22600	13320	212240	

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

NO. OF COPIES RECEIVED	
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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease  
State ☒ Fee ☐  
5. State Oil & Gas Lease No.  
L-6690-1

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator J.M. Huber Corporation	8. Farm or Lease Name Cabot "Q" State
3. Address of Operator 1900 Wilco Building, Midland, Texas 79701	9. Well No. 1
4. Location of Well UNIT LETTER <u>L</u> <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>560</u> FEET FROM THE <u>West</u> LINE, SECTION <u>7</u> TOWNSHIP <u>15S</u> RANGE <u>35E</u> NMPM.	10. Field and Pool, or Wildcat Morton Wolfcamp
15. Elevation (Show whether DF, RT, GR, etc.) KB: 4053'	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <u>Shut well in</u> <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

7/21/84

Subject well was shut-in. Pumping unit has been moved from location. The well is being evaluated for conversion to a salt water disposal well.

An Application For Permit to Drill, Form C-101 has been submitted for a replacement producing well in the Morton Wolfcamp Field, the Superior State No. 2.

RECEIVED  
OCT 1 1984  
OIL CONSERVATION DIVISION  
SANTA FE, NEW MEXICO

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief. (915) 682-3794

SIGNED Robert R. Glenn TITLE District Production Manager DATE July 30, 1984  
APPROVED BY [Signature] TITLE DISTRICT 1 SUPERVISOR DATE AUG - 1 1984  
CONDITIONS OF APPROVAL IF ANY: Expires 8/1/85

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. Box 2088  
SANTA FE, NEW MEXICO  
87501

ADMINISTRATIVE ORDER  
NFL 102

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator J. M. Huber Corporation Well Name and No. Superior State Well No. 1  
Location: Unit K Sec. 7 Twp. 15 South Rng. 35 East Cty. Lea

II.


THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.
- (2) That by Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is to be completed in the Morton Wolfcamp Pool, and the standard spacing unit in said pool is 80 acres.
- (4) That a 80-acre proration unit comprising the N/2 SW/4 of Sec. 7, Twp. 15 South Rng. 35 East, is currently dedicated to the Cabot "Q" State Well No. 1 located in Unit L of said section.
- (5) That this proration unit is (X) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. NA.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 35,000 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED:

- (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 14 day of November, 19 84.

  
DIVISION DIRECTOR — EXAMINER X



Received 4/30/84

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. Box 2088  
SANTA FE, NEW MEXICO  
87501

ADMINISTRATIVE ORDER  
NFL 102

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator J. M. Huber Corporation Well Name and No. Superior State Well No. 1  
Location: Unit K Sec. 7 Twp. 15 South Rng. 35 East Cty. Lea

II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.
- (2) That by Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is to be completed in the Morton Wolfcamp Pool, and the standard spacing unit in said pool is 80 acres.
- (4) That a 80-acre proration unit comprising the N/2 SW/4 of Sec. 7, Twp. 15 South, Rng. 35 East, is currently dedicated to the Cabot "Q" State Well No. 1 located in Unit L of said section.
- (5) That this proration unit is (☒) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. NA.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 35,000 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED:

- (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

DIVISION DIRECTOR \_\_\_\_\_ EXAMINER ☒



# J. M. HUBER CORPORATION

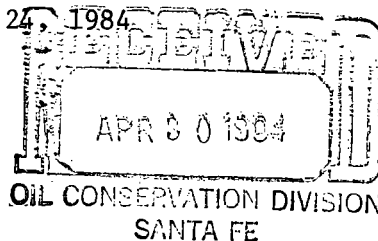
OIL AND GAS DIVISION  
1900 WILCO BUILDING  
MIDLAND, TEXAS 79701

MIDLAND DISTRICT OFFICE

April 24, 1984

TELEPHONE  
915-682-3794

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501



Re: Superior State No. 1  
Morton Wolfcamp Field  
Lea County, New Mexico  
K-7-15-35  
NGPA INFILL FINDING

Gentlemen:

J.M. Huber is hereby making application for an effective and efficient drainage finding for the subject well, which was completed 1/4/84. The Superior State No. 1 is needed to effectively and efficiently drain the portion of the reservoir covered by the proration unit which cannot be drained by the existing well on the unit, the Cabot State "Q" No. 1. The following are submitted to support this application:

- 1) Approved copy of Form C-101, Application for Permit to Drill, and Form C-102, Well Location and Acreage Dedication Plat. (Attached)
- 2) The name of the pool is Morton Wolfcamp, and the standard unit size is 80 acres.
- 3) Division Order No. R-2872 provides for the drilling of a non-standard proration unit.
- 4) A description of both wells on the proration unit is attached.
- 5) The following engineering information is submitted in support of the fact that the second well in the unit is necessary to recover reserves which would not otherwise be recovered by the first well in the unit.
  - a) The ultimate recovery of the Cabot State "Q" No. 1 is estimated to be 24,000 BO and 35 MMCF, based on decline curve analysis. Cumulative production as of 4/1/84 is 23,355 BO and 34 MMCF. The well is currently producing at the rate of 3 BOPD, 11 MCFPD, and 6 BWPD. The well cannot possibly recover the reserves identified by the Superior State No. 1, which is flowing 106 BOPD and 156 MCFPD.

- b) The Superior State No. 1 will recover an estimated 200,000 barrels of oil and 45.8 MCF of gas which cannot be recovered by the Cabot State "Q" No. 1. The reserves were calculated volumetrically for 40 acres using data from open hole logs run in the Superior State No. 1.
- 6) All operators of offsetting proration units have been notified that this application is being made.

If you need any additional information, please call Bill Horne in this office.

Sincerely yours,

J.M. HUBER CORPORATION



Robert R. Glenn  
District Production Manager

WGH/sgp

Attachments



APF: 30-025-28291

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease  
STATE ☒ 5 ☐ FEE ☐  
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. Name of Operator J.M. Huber Corporation 3. Address of Operator 1900 Wilco Bldg., Midland, TX 79701 4. Location of Well UNIT LETTER K LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE OF SEC. 7 TWP. 15S RGE. 35E NMPM		7. Unit Agreement Name 8. Farm or Lease Name Superior State 9. Well No. 1 10. Field and Pool, or Wildcat Morton Wolfcamp 12. County Lea	
15. Proposed Depth 10,500'		19A. Formation Wolfcamp	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 4040' Ground Level	
21A. Kind & Status Plug. Bond \$50,000-Current		21B. Drilling Contractor Not available	
22. Approx. Date Work will start 10/11/83			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	400'	400'	Circulate
12-1/4"	8-5/8"	28# & 24#	4500'	2500'	Circulate
7-7/8"	5-1/2"	17# & 15#	10,500'	1100'	4000'

Drill to total depth utilizing casing and cement programs as shown.  
Install double ram blowout preventer after cementing surface casing  
and test to 2000 psi.

APPROVAL VALID FOR 180 DAYS  
PERMIT EXPIRES 1/22/84  
UNLESS DRILLING UNDERWAY

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed J. Sexton Title Manager of Operations Date 7/11/83

(Official Seal for State Use) JERRY SEXTON  
DISTRICT 1 SUPERVISOR

(915) 682-3794  
7/11/83

JUL 22 1983

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

W MEXICO OIL CONSERVATION COMM ON  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-100,  
Supersedes O-1  
Effective 1-1-1974

All distances must be from the outer boundaries of the Section

Grantor <b>J. M. Huber Corporation</b>		Lessee <b>Superior State</b>		Well No. <b>1</b>
Section <b>K</b>	Section <b>7</b>	Township <b>15 South</b>	Range <b>35 East</b>	County <b>Lea County</b>

Actual Surface Location of Well:

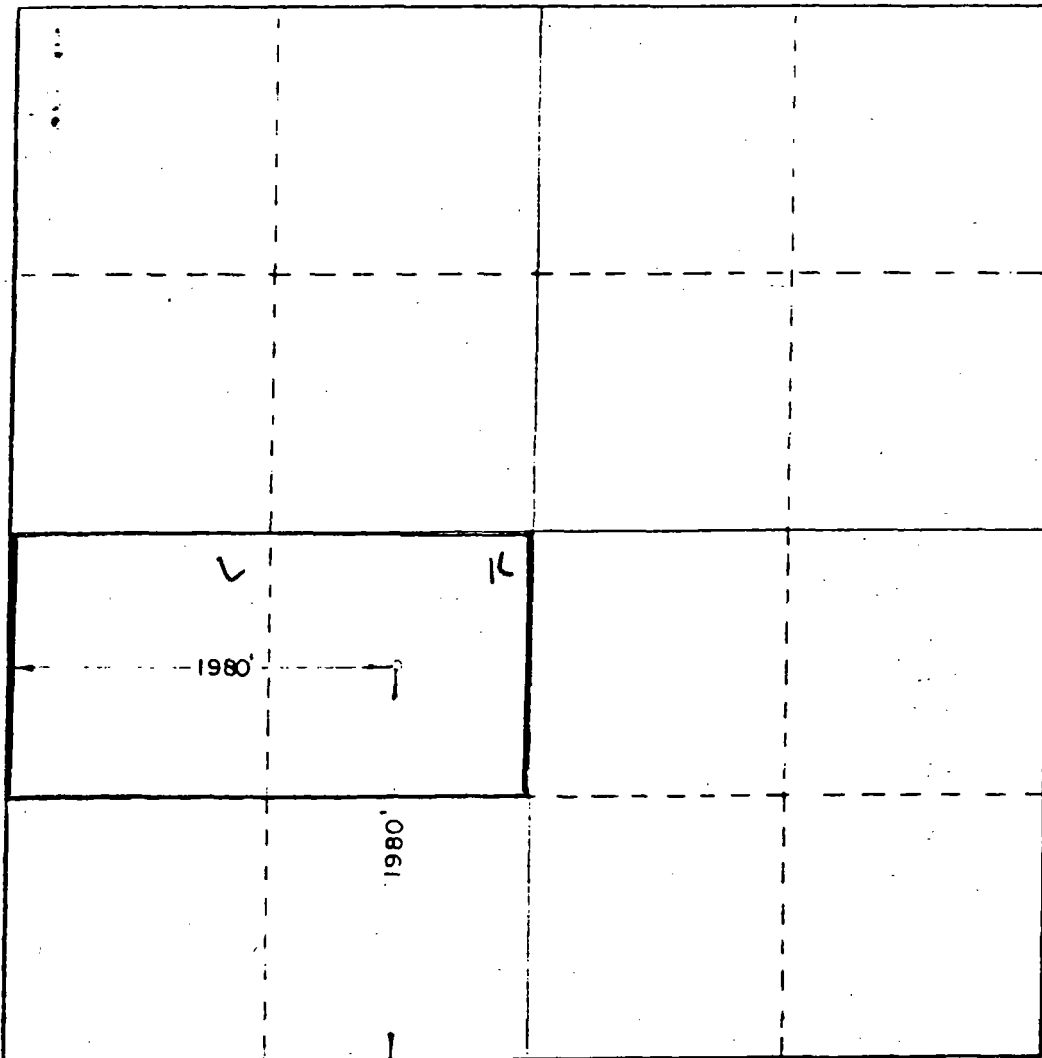
1980 feet from the South line and	1980 feet from the West line
Producing Formation <b>Wolfcamp</b>	Foot <b>Morton Wolfcamp</b>
Surface Elev. <b>4039.7</b>	Dedicated Acreage: <b>80</b>

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Commission.



**CERTIFICATION**

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

*Frank Leder*

Name  
**Frank Leder**  
Position  
**Manager of Operations**  
Company  
**J.M. Huber Corp.**

Date  
**July 11, 1983**  
**(915) 682-3794**

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.

Date Surveyed  
**July 7, 1983**  
Registered Professional Engineer  
and Land Surveyor

*Ronald J. Eidson*  
Certificate No. **JOHN W. WEST**

**RONALD J. EIDSON**

CABOT STATE "Q" NO. 1  
DESCRIPTION OF 1ST WELL IN UNIT

Lease Name: Cabot State "Q" No. 1

Location: 660' FWL & 1980' FSL, Sec. 7, T15S, R35E

Spud Date: 3/7/56: Re-entry by Cabot 5/26/65: Re-entry by Huber 9/15/81

Completion Date: 5/25/65 by Cabot: 9/22/81 by Huber

Description of Mechanical problems and remedial action taken and results obtained:

The Cabot State "Q" No. 1 <sup>Shut In</sup> was originally drilled by McAllister Fuel in 1956, and was subsequently ~~plugged~~ following no substantial oil recovery. Cabot Corporation re-entered the well in 1965, and following the unsuccessful testing of the Strawn and Lower Wolfcamp zones, completed the well in the Upper Wolfcamp from 10,304'-371'. The zone produced 21,719 BO, 31 MMCF of gas, and 44,600 barrels of water over a five year period. The well was plugged by Cabot Corporation in 1970. J.M. Huber Corporation re-entered the well in September, 1981. Huber ran 5½" casing and tied back into the 5½" production casing at 8740'. The well currently produces 3 BOPD and 6 BWPD from the Wolfcamp by rod pump and is therefore incapable of draining the entire proration unit.



SUPERIOR STATE NO. 1  
DESCRIPTION OF 2nd WELL IN UNIT

Lease Name: Superior State No. 1

Location: 1980' FSL & FWL, Sec. 7, T15S, R35E  
Lea County, New Mexico

Spud Date: November 13, 1983

Completion Date: January 4, 1984

Description of mechanical problems and remedial action taken and results obtained:

The Superior State No. 1 has no mechanical problems.

Current Rate of Production: Flowing 108 BOPD and 158 MCFPD through 10/64" choke with flowing tubing pressure of 670 psi.

The proration unit cannot be drained by the first well on the unit, Cabot State "Q" No. 1, because the well is approaching its economic limit of 2 BOPD.



J.M. Huber Corporation  
2000 West Loop South  
Houston, TX 77027

Attention: Harry Wilson

AMENDED

RE: Administrative Order NFL-102

Dear Ms. Wilson:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and the Oil Conservation Division Order No. R-6013 for the following described well:

Superior State Well No. 2 located <sup>1980</sup>~~28~~ feet  
from the South line and 810 feet from the West line of  
(Unit 2)





Section 7, Township 15 South, Range 35 East, NMPM,  
Lea County, New Mexico.

THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Merton Wolfcamp Pool, and the standard spacing unit in said pool is 80 acres.

(4) A ~~X~~ standard 80-acre (gas) (oil) proration unit comprising the N/2 SW/4 <sup>and</sup> of Section 7 ~~Township~~ 15 South, Range 35 West, is currently dedicated to the Superior State Well No. 1 located in Unit K of said Section 2.

( ) Said non-standard unit was previously approved by Order No. \_\_\_\_\_.

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Case No. 9838  
Order No. R-9130  
Page No. 3

(12) The evidence also indicates that both transporters are taking gas from the wells in this pool, there is no discrimination in takes between transporters, and there is a market demand for all gas produced from all wells in the pool.

(13) The applicant presented evidence that the adoption of natural gas prorationing in the Pitchfork Ranch-Atoka Gas Pool would increase the ultimate recovery of gas reserves from the pool by approximately 355 million cubic feet or 4.4%. The witness presenting this evidence based his conclusions upon computer modeling which has a 5% margin of error.

(14) The reliability of computer modeling of reservoir performance depends on the assumptions made and the parameters used, and is most useful in conjunction with actual reservoir performance evidence to predict the results under varying conditions.

(15) Applicant did not provide adequate evidence identifying and supporting the

parameters and assumptions and how they were derived. Applicant  
identify the actual model format or adequately correlate the model results to actual  
reservoir performance to establish the validity of the conclusions drawn from the model.

(16) The evidence also showed that implementation of prorationing would not allocate the gas market to the wells in the pool as it is intended to do, for all wells in the pool except for the Enron Oil and Gas Company Pitchfork "34" Federal Com Well No. 1 located in the W/2 of Section 34, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico, would be classified as marginal and would therefore be allowed to produce without restriction. The balance of the market would be assigned to the one non-marginal well thereby violating correlative rights to the interest owners in this one well.

(17) The conditions which precipitate gas prorationing in the Pitchfork Ranch-Atoka Gas Pool do not exist and this application should therefore be denied.

**IT IS THEREFORE ORDERED THAT:**

(1) The application of Parker Drilling Company seeking to limit gas production from the Pitchfork Ranch-Atoka Gas Pool to reasonable market demand and to the capacity of gas transportation facilities, and that Special Rules and Regulations be adopted for said pool including provisions for allocating allowable production among the wells in the pool on a 100% surface acreage basis, is hereby denied.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the Superior State Well No. 2 as described above, as an infill well on the existing 80-acre oil (gas) proration unit comprising the N/2 SW/4 of Section 7, Township 15 South, Range 35 East, NMPM, Morton Wolfenden Pool, Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Michael E. Stogner

Examiner

cc: Oil Conservation Division - Hobbs