

APPLICATION FOR MULTIPLE COMPLETION

Operator Reading & Bates Petroleum Co. County Rio Arriba Date 4/2/86
3200 Mid-Continent Tower
Tulsa, Oklahoma 74103 Lease Howard Federal Well No. 43-15
 Address _____
 Location Unit NESE Section 15 Township 25N Range 2W
 of Well _____

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Gavilan-Mancos		Gavilan-Greenhorn / Graneros / Dakota
b. Top and Bottom of Pay Section (Perforations)	Top 6581' Bottom 7006'		Top 7577' Bottom 7860'
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production ☒ Actual ☐ Estimated Oil Bbls. Gas MCF Water Bbls.	99.2 BOPD 225 MCFPD 1 BWPD	RECEIVED APR 14 1986 OIL CON. DIV. DIST. 3	1783 MCFPD 53.3 BOPD 16 BWPD

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

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

Signed J. Bruce Peltz Title Division Manager Date 4-9-86

(This space for State Use)

Approved By Original Signed by FRANK T. CHAVEZ Title SUPERVISOR DISTRICT #3 Date APR 14 1986

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

HOWARD FEDERAL #43-15 COMPLETION DIAGRAM

NE SE SEC. 15, T25N, R2W
RIO ARriba COUNTY, N.M.

TOP OF CEMENT @ SURFACE (9578" CSG)

9578" 36# K55, STC @ 374'

CENTRALIZER ON FIRST + SECOND JOINT

CEMENTO W/ 2SD SX. CLASS "B" + 39" CaCl₂
+ 1/4 #/SX. FLOCELE

SHORT STRING: 2 3/8", 4.7# EUE, J55 TUBING

LONG STRING: 2 3/8", 4.7# EUE, J55 TUBING

TDC 1400' (7" CSG)

1.780" SN W/ LOCKING COLLAR

6' PERFORATED SUB

1 JOINT TUBING

LATCH

PARALLEL STRING ANCHOR @ 6564' K18

MANCOS/GALLUP

PERFS. 6581

6595, 6620,

6624, 6665,

6686, 6695,

6740, 6746,

6746, 6757,

6766, 6770,

6772, 6785,

6793, 6801,

6804, 6816,

6823, 6831,

6844, 6853,

6862, 6905,

6923, 6931,

6951, 6960,

6970, 6985,

6993, 7006

CAVILAN-GRANCO

GREENHORN/DACOTA

PERFS. 7577, 8092,

7603, 06, 12, 20,

23, 28, 32, 43,

46, 7715, 23, 26,

35, 54, 57, 59,

62, 71, 75,

91, 93, 96, 99,

7821, 24, 26,

28, 30, 42,

45, 47, 52,

55, 60

PBTD 7912'

"E-22" ANCHOR SEAL ASSY. 10/3 SEAL UNITS

"D" PRODUCTION PACKER W/ 3.00" I.D. @ 7500'

2 3/8" TUBING TAIL PIPE

1.81" "F" NON-PORTED SEATING NIPPLE

1 JOINT 2 3/8" TUBING

1.78" "R" NON-PORTED SEATING NIPPLE

2 3/8" X 5' NON-PERFORATED PRODUCTION TUBE

7" CASING CMTG: 21 CENTRALIZER ON SHOE JT., FLOAT

COLLAR, ONE EVERY JT. FOR 15 JTS, 2 ON EA. STAGE COLLAR

STAGE COLLARS @ 4998' + 3625'. CMT. (STAGE 1) 860 SX. 50/50

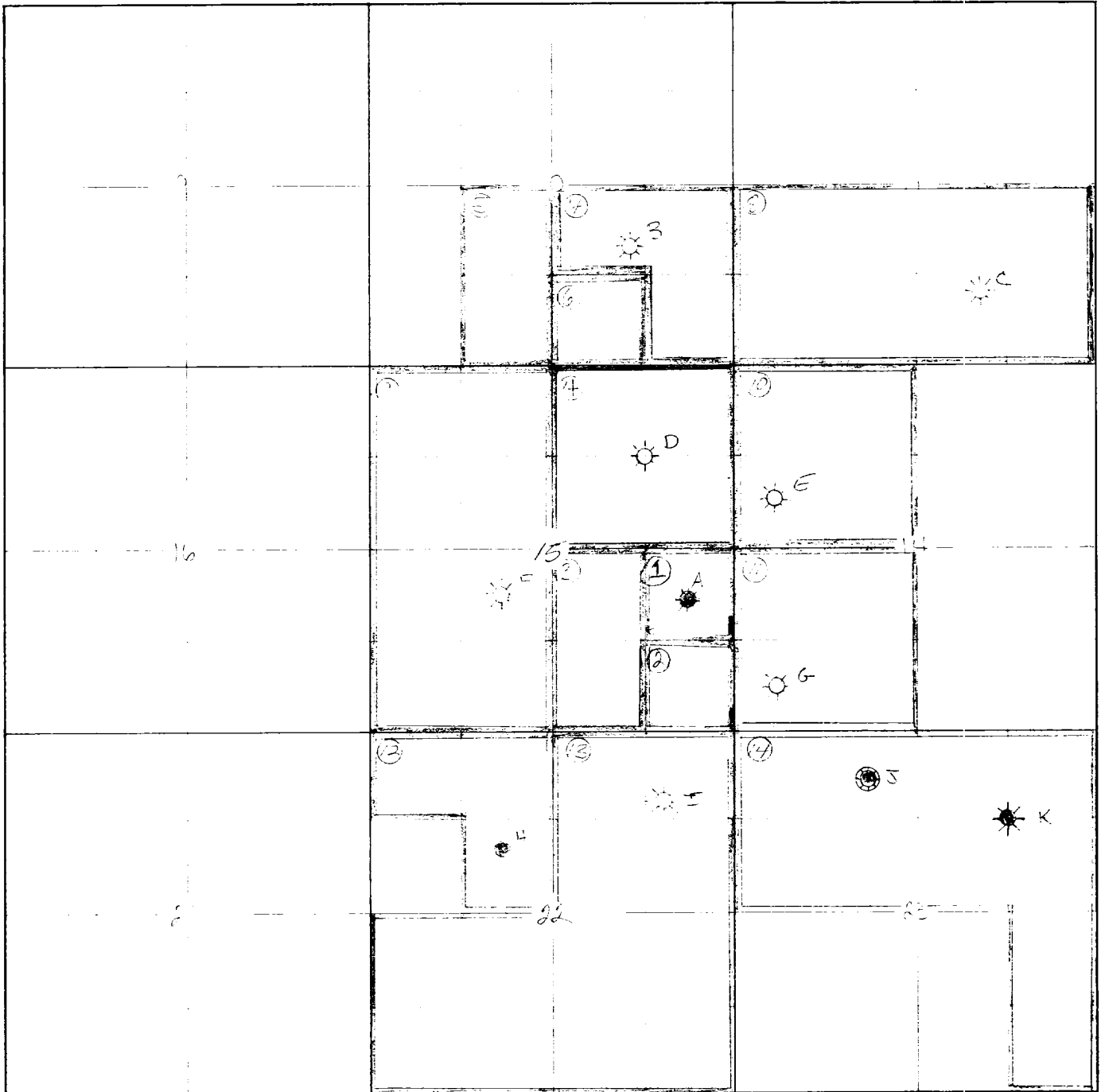
POZ. + 29% GEL + 10% SALT + 6" 4#/SX GILSONITE, 50 SX. "B" NEAT

(STAGE 2) 440 SX. 65/35 POZ. + 39% GEL + 10% CALSEAL + 12 1/2 #/SX

GILSONITE, 50 SX "B". (STAGE 3) 160 SX. 65/35 POZ + 39% GEL + 10%

"B" NEAT

TOWNSHIP 22N RANGE 2W COUNTY McMURTER STATE OK



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LEASES DESIGNATED BY NUMBER SEE ATTACHMENT FOR INFO.
 WELLS DESIGNATED BY LETTER SEE ATTACHMENT FOR INFO.

LEASE INFORMATION

	<u>LEASE</u>	<u>LESSOR</u>	<u>ADDRESS</u>
1)	NM-0555076	E.L. Fundingsland	5290 DTC Parkway #2, Englewood, CO 80111
2)	SF-081332B	Mt. States Natural Gas Co.	P.O. Box 35426, Tulsa, OK 74135
3)	SF-081332	Reading & Bates Petr. Co.	3200 Mid-Continent Tower, Tulsa, OK 74103
4)	NM-04083	A.G. Hill	1601 Elm #2800, Dallas, Texas 75201
5)	SF-081332	Reading & Bates Petr. Co.	3200 Mid-Continent Tower Tulsa, OK 74103
6)	NM-0555076	E.L. Fundingsland	5290 DTC Parkway #2, Englewood, CO 80111
7)	SW-284	El Paso	P.O. Box 4289, Farmington, NM 87499-4289
8)	Mockley, et al	El Paso	P.O. Box 4289, Farmington, NM 87499-4289
9)	Lacer	E. Alex Phillips	1200 Philtower Bldg., Tulsa, OK 74103
10)	Fee	El Paso	P.O. Box 4289, Farmington, NM 87499-4289
11)	Dunham	E.L. Fundingsland	5290 DTC Parkway #2, Englewood, CO 80111
12)	SF-04083	Mesa Grande Resources	1200 Philtower Bldg., Tulsa, OK 74103
13)	Howard	Mesa Grande Resources	1200 Philtower Bldg., Tulsa, OK 74103
14)	Howard	Mesa Grande Resources	1200 Philtower Bldg., Tulsa, OK 74103

WELL INFORMATION

<u>OPERATOR</u>	<u>WELL</u>	<u>FORMATION</u>
A. Reading & Bates Petr. Co.	Howard Federal #43-15	Gavilan-Mancos Gavilan-Greenhorn/ Graneros/Dakota
B. El Paso	El Paso #10	Pictured Cliffs
C. El Paso	Mockley #1	Pictured Cliffs
D. El Paso	Hill #17	Pictured Cliffs
E. El Paso	Hill #1	Pictured Cliffs
F. Nanco	--	Pictured Cliffs
G. E. L. Fundingsland	#9	Pictured Cliffs
H. Mesa Grande Resources	Hellcat #1	Mancos/Gallup/ Sanastee
I. Mesa Grande Resources	#2	Pictured Cliffs
J. Mesa Grande Resources	Gavilan Howard #1	Gavilan-Mancos Gavilan-Greenhorn/ Graneros/Dakota
K. Mesa Grande Resources	#2	Pictured Cliffs