

GOOD COPY

SUBMIT IN DUPLICATE\*

(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-B1425.UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-22162

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Perry R. Bass

Amended Location

## 3. ADDRESS OF OPERATOR

P O Box 2760, Midland, Tx 79702

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1650' FNL &amp; 1980' FEL, Sec. 21, T22S, R30E

At proposed prod. zone

Same as above

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

28 miles ESE of Carlsbad NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

1650'

## 16. NO. OF ACRES IN LEASE

640

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL  
32018. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

14,500

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3159.4 GL

## 22. APPROX. DATE WORK WILL START\*

Upon approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½	13-3/8	48#	500	300 sx
12¼	9-5/8	36#	3800	1200 sx
8-3/4	5½	17#	TD	900 sx

Drilling procedure, BOPE diagrams, anticipated tops,  
and surface use plans are attached!

Gas is dedicated.

RECEIVED

MAR 11 1980

JUN 16 1980

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICOO. C. D.  
ARTESIA, OFFICE

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.

## 24.

SIGNED

Mike Waygood

TITLE Engineering Assistant

DATE

3-5-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

6-13-80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

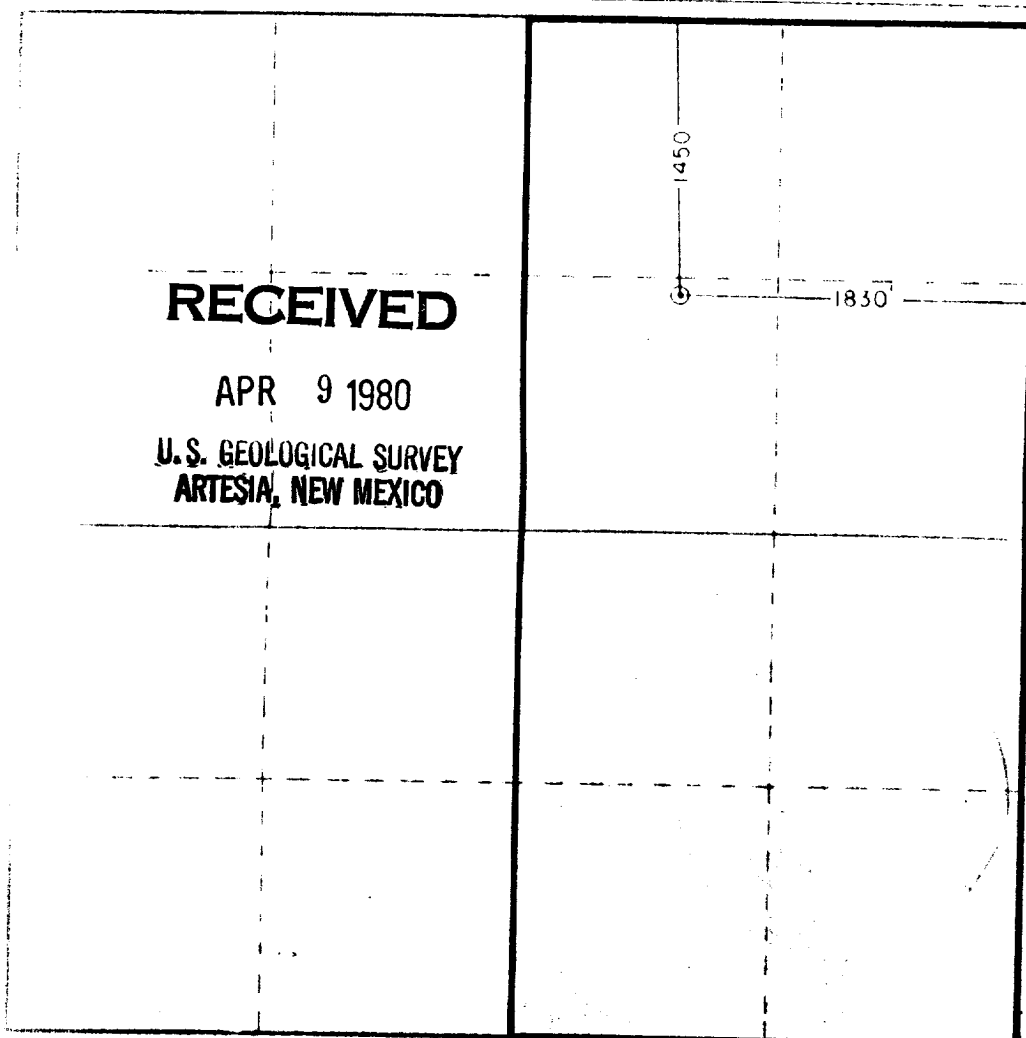
Operator <b>Perry R. Bass</b>			Lease <b>James Ranch Unit</b>		Well No. <b>12</b>
Section <b>G</b>	Section <b>21</b>	Township <b>22 South</b>	Range <b>30 East</b>	County <b>Eddy</b>	
Footage Location of Well: <b>1450</b> feet from the <b>North</b> line and <b>1830</b> feet from the <b>East</b> line. Elevation <b>3161.8</b> Producing Formation <b>Morrow</b> Pool <b>Wildcat</b> Section Acres <b>320</b>					

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 Unit

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.

*Mike Waygood*  
**Mike Waygood**

**Engineering Assistant**

**Bass Enterprises Production Co.**

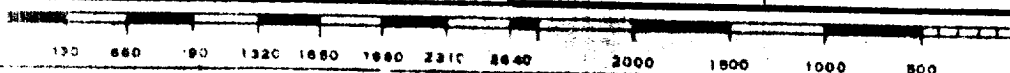
**April 8, 1980**

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.

**April 4, 1980**

*John W. West*  
**John W. West**

Certificate No. **JOHN W. WEST 676**  
**PATRICK A. ROMERO 6483**  
**Ronald J. Eidson 3239**





# United States Department of the Interior RECEIVED

GEOLOGICAL SURVEY

South Central Region

P. O. Box 26124

Albuquerque, New Mexico 87125

JUN 16 1980

O. C. D.

ARTESIA, OFFICE

JUN 18 1980

Perry R. Bass  
P. O. Box 2760  
Midland, Texas 79702

Gentlemen:

PERRY R. BASS  
James Ranch Unit No. 12  
1450 FNL 1830 FEL Sec. 21 T.22S R.30E  
Eddy County Lease No. NM-06808

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well in the Secretary's Oil-Potash Area to a depth of 14,500 feet to test the Morrow is hereby approved subject to approval of the non-standard location by the N.M.O.C.D. and 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. All access roads will be limited to a 12 foot wide driving surface, excluding turnarounds. Surface disturbance associated with road construction will be limited to 30 feet in width.
4. 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.
5. 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).
6. Before drilling below the 9-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.

7. A kelly cock will be installed and maintained in operable condition.
8. After setting the 9-5/8" 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.
9. 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.
10. Notify the Survey by telephone 24 hours prior to spudding well.
11. Notify the Survey in sufficient time to witness the cementing of the 13-3/8" and 9-5/8" casing.
12. Cement behind the 13-3/8" and 9-5/8" casing must be circulated.
13. It is required that a Gamma-Ray-Neutron Log be run in open hole from the base of Salado to the surface at a speed not to exceed 30 feet per minute.
14. Special Stipulations: Access road will originate in NE/4 SW/4, Sec. 15, T. 22S., R. 30E., at existing potash drill hole site and proceed southwest through Secs. 15, 16, and 21, T. 22S., R. 30E.

15. 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,

(ORIG. SGD.) GENE F. DANIEL

[FOR] Acting Deputy Conservation, Oil and Gas

Enclosure

cc:

Regional Manager, Denver

Mining Branch (2)

BLM, Roswell (w/cy Notice)

NMOCD, Artesia (2) (w/2 cys Notice)

Artesia

Roswell (w/cy Notice)

Area (potash)

Area (chrono.)

District (potash)

District (chrono)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TR CATE\*  
(Other instructio on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.

LC-06808

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 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—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME James Ranch Unit
2. NAME OF OPERATOR Perry R. Bass	8. FARM OR LEASE NAME James Ranch Unit
3. ADDRESS OF OPERATOR P O Box 2760 Midland, Texas 79702	9. WELL NO. 12
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1450' FNL & 1830' FEL, Sec. 21, T22S, R30 E	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 21, T22S, R30E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3161.8 GL	12. COUNTY OR PARISH Eddy
	13. STATE N M

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☒

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Perry R. Bass proposes to move James Ranch Unit #12 as called for by Bureau of Land Management. New location will be 1450' FNL & 1830' FEL, Section 21, T-22S, R-30-E. A new access road is also proposed. Attached is map showing new location with proposed and existing road, plus new plat with dedicated acreage.

RECEIVED

APR 9 1980

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

*Mike Waygood*

TITLE

Engineering Assistant

DATE

4-8-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 06808

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen properly backfilled wells or reservoirs.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

MAY 16 1980

2. NAME OF OPERATOR

PERRY R. BASS

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

3. ADDRESS OF OPERATOR

P O BOX 2760 MIDLAND TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1450' FNL &amp; 1830' FEL, Sec. 21, T22S, R-30-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3161.8 GL

7. UNIT AGREEMENT NAME

JAMES RANCH UNIT

8. FARM OR LEASE NAME

JAMES RANCH UNIT

9. WELL NO.

12

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

SEC 21, T22S, R30E

12. COUNTY OR PARISH

EDDY

13. STATE

N M

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Report casing design ☒(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached Perry R. Bass submits casing design program for the James Ranch Unit No. 12, as called for by the United States Geological Survey.

RECEIVED

MAY 19 1980

O. C. D.  
ARTESIA, OFFICE

18. I hereby certify that the foregoing is true and correct.

SIGNED Mike WaygoodTITLE Engineer AssistantDATE 5-15-80

(This space for Federal or State office use)

APPROVED BY (Orig. Sgd.) GEORGE H. STEWARTTITLE ACTING DISTRICT ENGINEERDATE MAY 16 1980

CONDITIONS OF APPROVAL, IF ANY:

Casing Designs approved providing that 5 1/2" 17 lb. N-80 Buttress thread casing is used from the surface to 3,200 ft. Instructions on Reverse Side

JAMES RANCH UNIT NO. 12

CASING DESIGN REPORT

SURFACE CASING

<u>HOLE SIZE</u>	<u>CASING SIZE</u>	<u>GRADE</u>	<u>WEIGHT</u>	<u>THREAD</u>	<u>FOOTAGE</u>
17 1/2"	13 3/8"	H-40	48 #	ST&C	500'

Surface casing is to be cemented with 300 sx Class "C" plus 2% CaCl<sub>2</sub>. Cement must be circulated to the surface.

INTERMEDIATE CASING

<u>HOLE SIZE</u>	<u>CASING SIZE</u>	<u>GRADE</u>	<u>WEIGHT</u>	<u>THREAD</u>	<u>FOOTAGE</u>
12 1/4"	9 5/8"	K-55	36 #	ST&C	3800'

Intermediate casing is to be cemented with 950 sx Halliburton Lite followed with 250 sx Class "C" plus 2% CaCl<sub>2</sub>. Cement must be circulated to the surface.

PRODUCTION CASING

<u>HOLE SIZE</u>	<u>CASING SIZE</u>	<u>GRADE</u>	<u>WEIGHT</u>	<u>THREAD</u>	<u>FOOTAGE</u>
8 3/4"	5 1/2"	S-95	17 #	LT&C	6325'
8 3/4"	5 1/2"	N-80	17 #	LT&C	7840'

Production casing will be cemented with 200 sx Halliburton Lite followed with 700 sx Class "H". Estimated top of cement is 9915'.

*Mike Waygood*  
Mike Waygood



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)Form Approved  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

NM  
#06808

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a surface well.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		MAY 22 1980		7. TRUST AGREEMENT NAME James Ranch Unit	
2. NAME OF OPERATOR Perry R. Bass		U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO		8. FARM OR LEASE NAME James Ranch Unit	
3. ADDRESS OF OPERATOR P. O. Box 2760, Midland, Texas 79702				9. WELL NO. 12	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1450' FNL & 1830' FEL, Sec. 21, T22S, R30E				10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3161.8		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 21, T22S, R30E	
				12. COUNTY OR PARISH Eddy	
				13. STATE NM	

## 18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Report Casing Design

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Perry R. Bass hereby submits casing design for the 5½" production casing on the James Ranch Unit #12.

Segment	Size	Grade	Thrd.	Weight	Top	Bottom	Length
1	5½"	S-95	LT&C	17#	9235	14500	5265
2	5½"	N-80	LT&C	17#	1395	9235	7840
3	5½"	S-95	LT&C	17#	0	1395	1395

RECEIVED

JUN 16 1980

O. C. D.  
ARTESIA, OFFICE

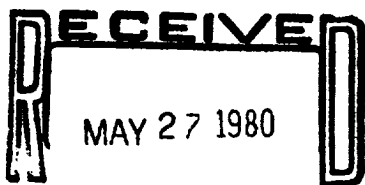
18. I hereby certify that the foregoing is true and correct

SIGNED Mike WaygoodTITLE Engineering AssistantDATE 5-21-80

(This space for Federal or State office use)

(Sigs. Sgd.) GEORGE H. STEWART

TITLE ACTING DISTRICT ENGINEERDATE MAY 23 1980APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:



U.S. GEOLOGICAL SURVEY  
ALBUQUERQUE, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102  
Superseded G-128  
Effective 1-1-65

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

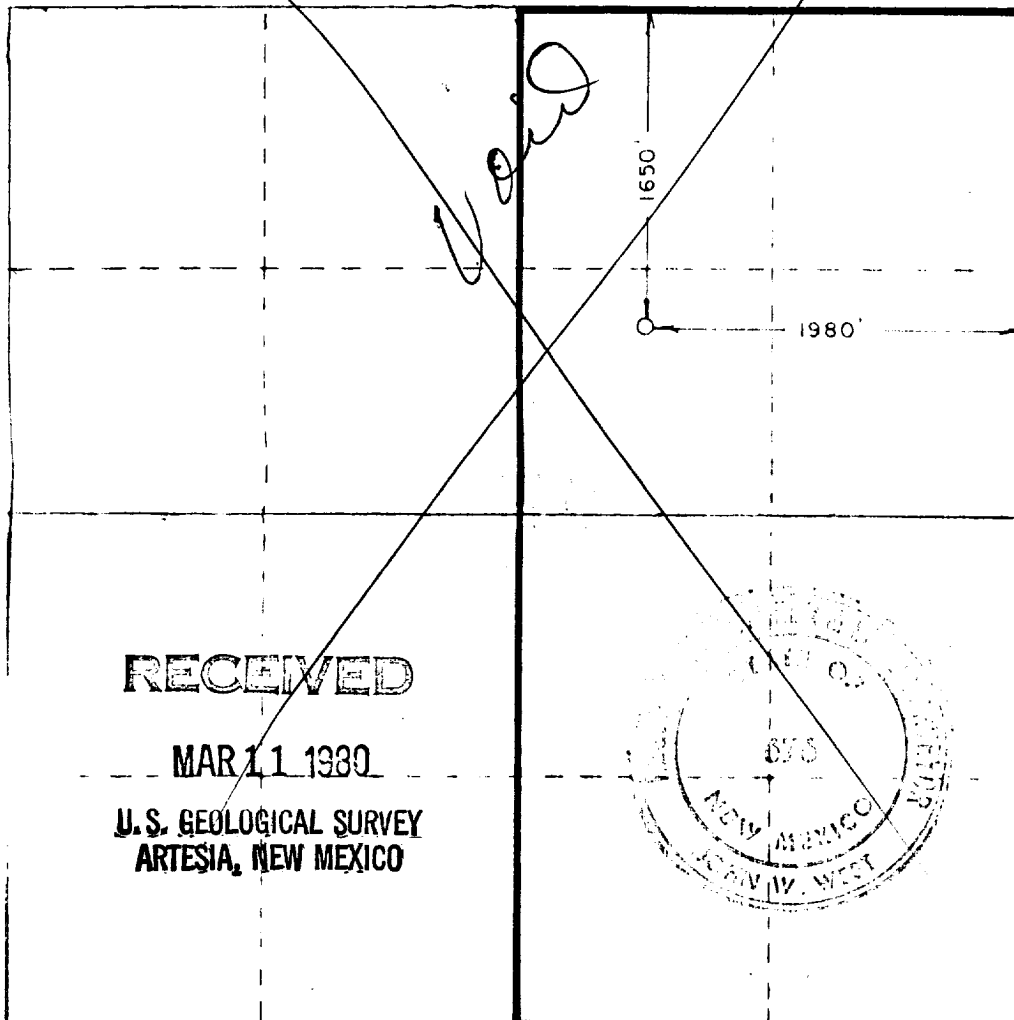
Operator <b>Perry R. Bass</b>		Lease <b>James Ranch Unit</b>		Well No. <b>12</b>
Section <b>G</b>	Range <b>21</b>	Township <b>22 South</b>	Range <b>30 East</b>	County <b>Eddy</b>
Actual Surface Location of Well: <b>1650</b> feet from the <b>North</b> line and <b>1980</b> feet from the <b>East</b> line.				
Ground Level Elev. <b>3159.4</b>	Producing Formation <b>Morrow</b>	Rock <b>Wildcat</b>	Estimated Acreage <b>320</b> Acres	

- 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 there (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 Unit

If answer is "no," list the owners and tract descriptions which have actually been consolidated (if so 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.

*Mike Waygood*

Mike Waygood

Engineering Assistant

Bass Enterprises Prod. Co.

March 7, 1980

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.

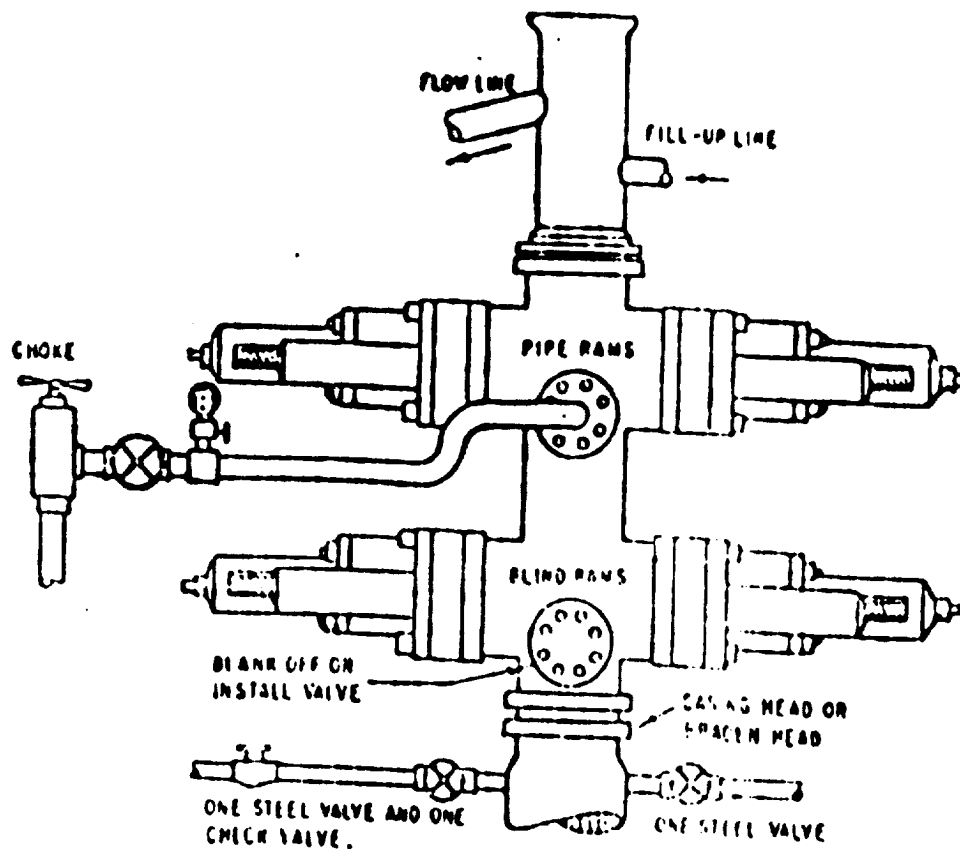
Jan. 29, 1980

Registered Professional Engineer  
Oil and Gas Engineering

*John W. West*

Certificate No. **JOHN W. WEST 676**  
**PATRICK A. ROMERO 6663**  
**Ronald J. Eidson 3239**

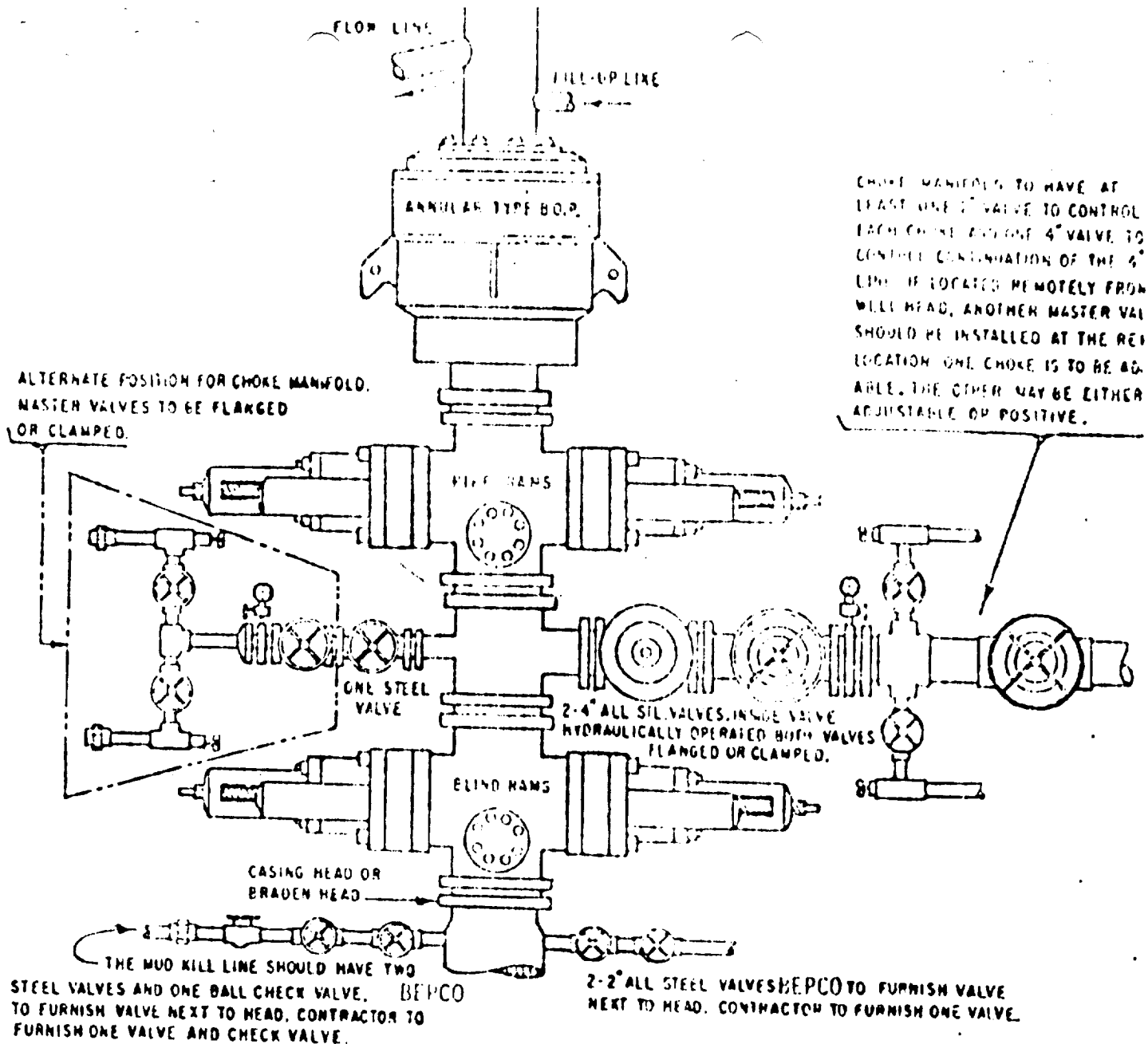
330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900



## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. ONE DOUBLE GATE BLOWOUT PREVENTER WITH LOWER RAMS BLIND AND UPPER RAMS FOR PIPE, ALL HYDRAULICALLY CONTROLLED, OPENING OR PREVENTERS BETWEEN RAMS.
- B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTERS.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.
- F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. VALVE TO CONTROL FLOW THROUGH DRILL PIPE TO BE LOCATED ON RIG FLOOR.
- H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE. choke spool may be used between rams.

REPCO II  
ONE HYDRAULIC DUAL BLOWOUT PREVENTER



## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKE SPOOL BELOW AND EITHER
  - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING PIPE RAMS, OR
  - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RAMS ON BOTTOM AND PIPE RAMS ON TOP.
- B. OPENING ON CHOKE SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B.O.P.'S.
- E. ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'S.
- F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. KELLY COCK TO BE INSTALLED ON KELLY.
- H. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
- I. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLING POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

BEPCO 17

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS