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30-015-21529

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

APR 28 1975

O. C. C.
ARTESIA, OFFICE

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE [XX] FEE [ ]

5. State Oil & Gas Lease No. E-5230

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well
OIL WELL [ ] GAS WELL [XX] OTHER SINGLE ZONE [XX] MULTIPLE ZONE [ ]

7. Unit Agreement Name: Big Eddy Unit

8. Farm or Lease Name: Big Eddy Unit

2. Name of Operator: PERRY R. BASS

9. Well No.: 44

3. Address of Operator: Box 1178; Monahans, Texas 79756

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well UNIT LETTER H LOCATED 1980' FEET FROM THE north LINE AND 660 FEET FROM THE east LINE OF SEC. 16 TWP. 21 RGE. 30 NMPM

12. County: Eddy

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
13,500'	Morrow	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3304.7 GL (Surveyed)	Blanket	McVay Drlg. Co.	avail. of rig.

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
21" +	21" Conduct.	94#/ft.	35'	Redi-mix	surf.
17.5"	13 3/8"	48#/ft.	500'	525	surf.
12.25"	9 5/8"	36#/ft.	3600'	925	surf.
8.5"	5 1/2"	17# & 20#	13500'	1000	9000'

See 30# Attachment

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,
EXPIRES 8-6-75

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 George A. Lee Title Staff Petrol. Engr. Date 4-18-75

(This space for State Use)

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE MAY 6 1975

CONDITIONS OF APPROVAL, IF ANY:

Notify N.M.O.C.C. in sufficient time to witness cementing the 9 5/8" casing

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
Perry R. Bass	Big Eddy Unit	44

Unit Letter	Section	Township	Range	County
H	16	21 South	30 East	Eddy

Actual Footage Location of Well:
1980 feet from the North line and 660 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3304.7	Morrow	Wildcat	320 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 Commission.

RECEIVED
MAY 5 1975
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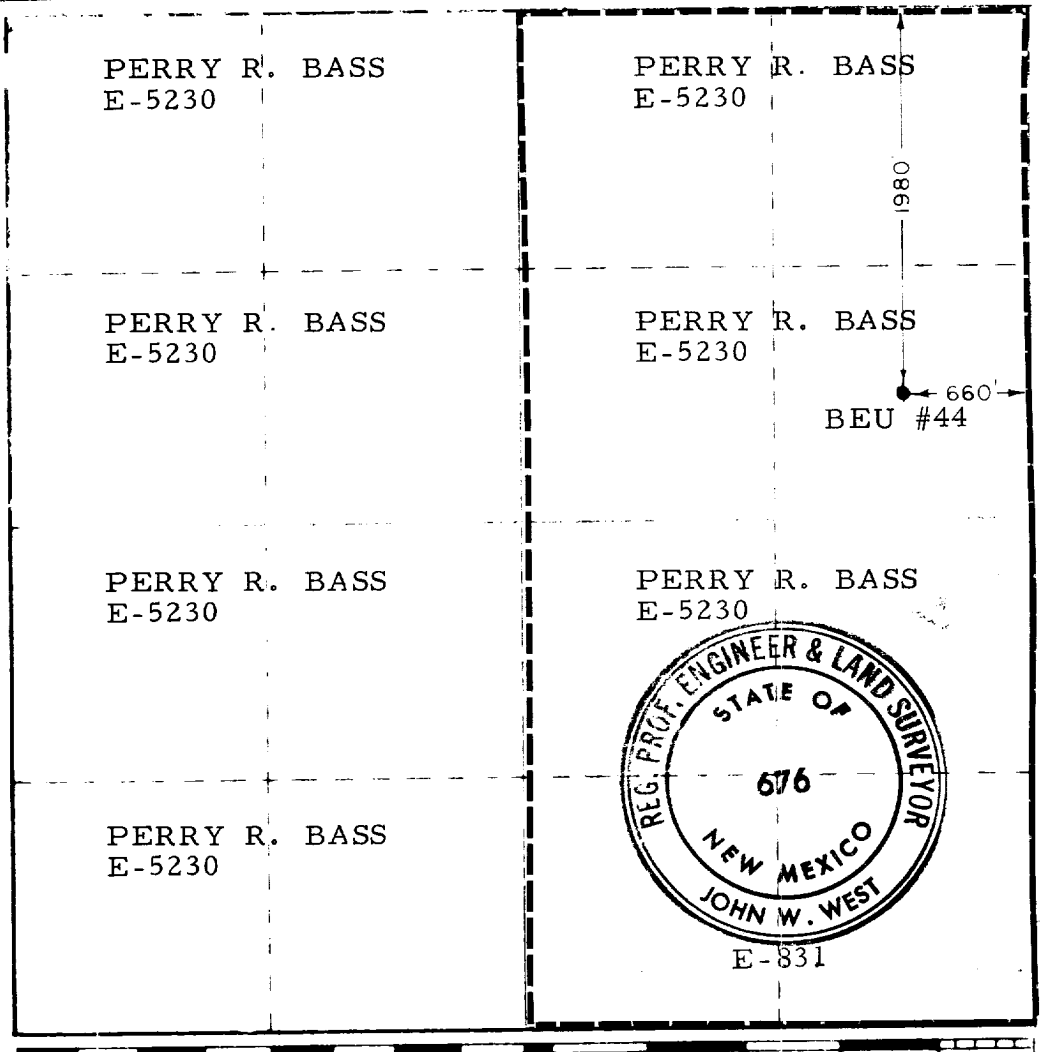


CERTIFICATION

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

Name: George A. Teer

Position: Staff Petrol. Engr.

Company: Perry R. Bass

Date: April 18, 1975

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.

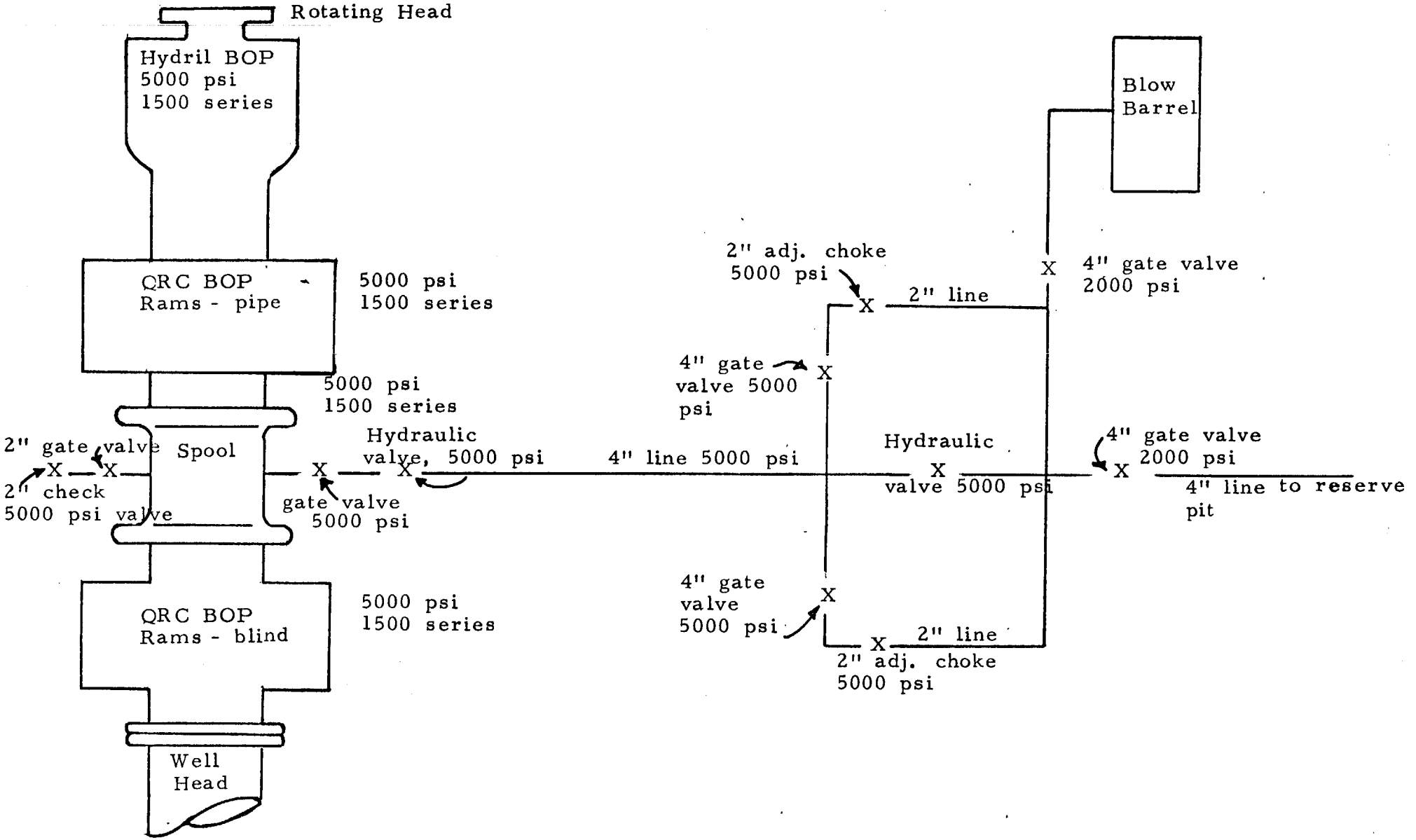
Date Surveyed: January 20, 1975

Registered Professional Engineer and/or Land Surveyor: John W. West

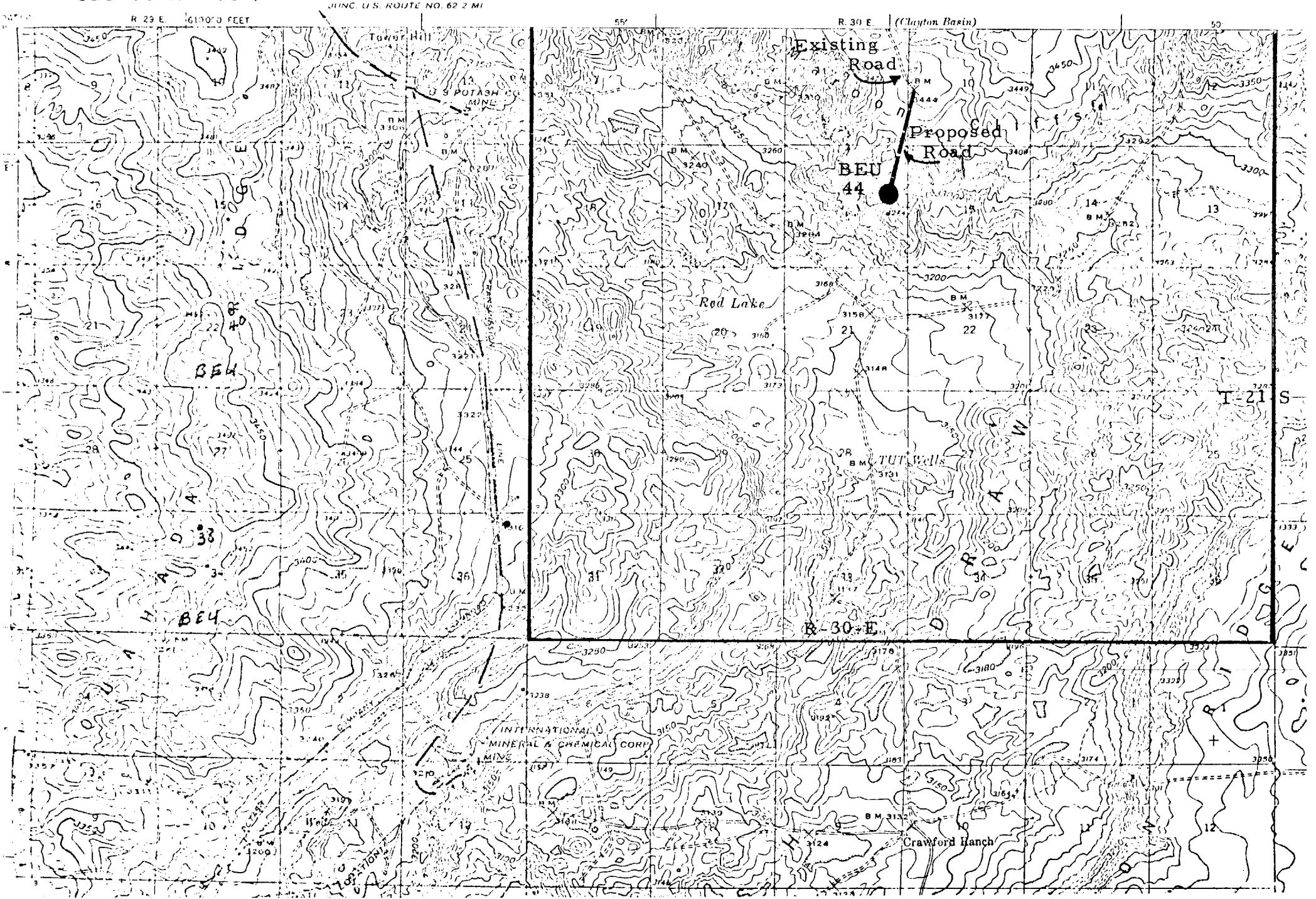
Certificate No. 676

PERRY R. BASS
Big Eddy Unit #44

Loc: 1980' FNL, 660' FEL,
Sec. 16, T-21-S, R-30-E;
Eddy County, New Mexico



PERRY R. BASS
Big Eddy Unit #44
Loc: 1980' FNL, 660' FEL,
Sec. 16, T-21-S, R-30-E;
Eddy County, N. M.

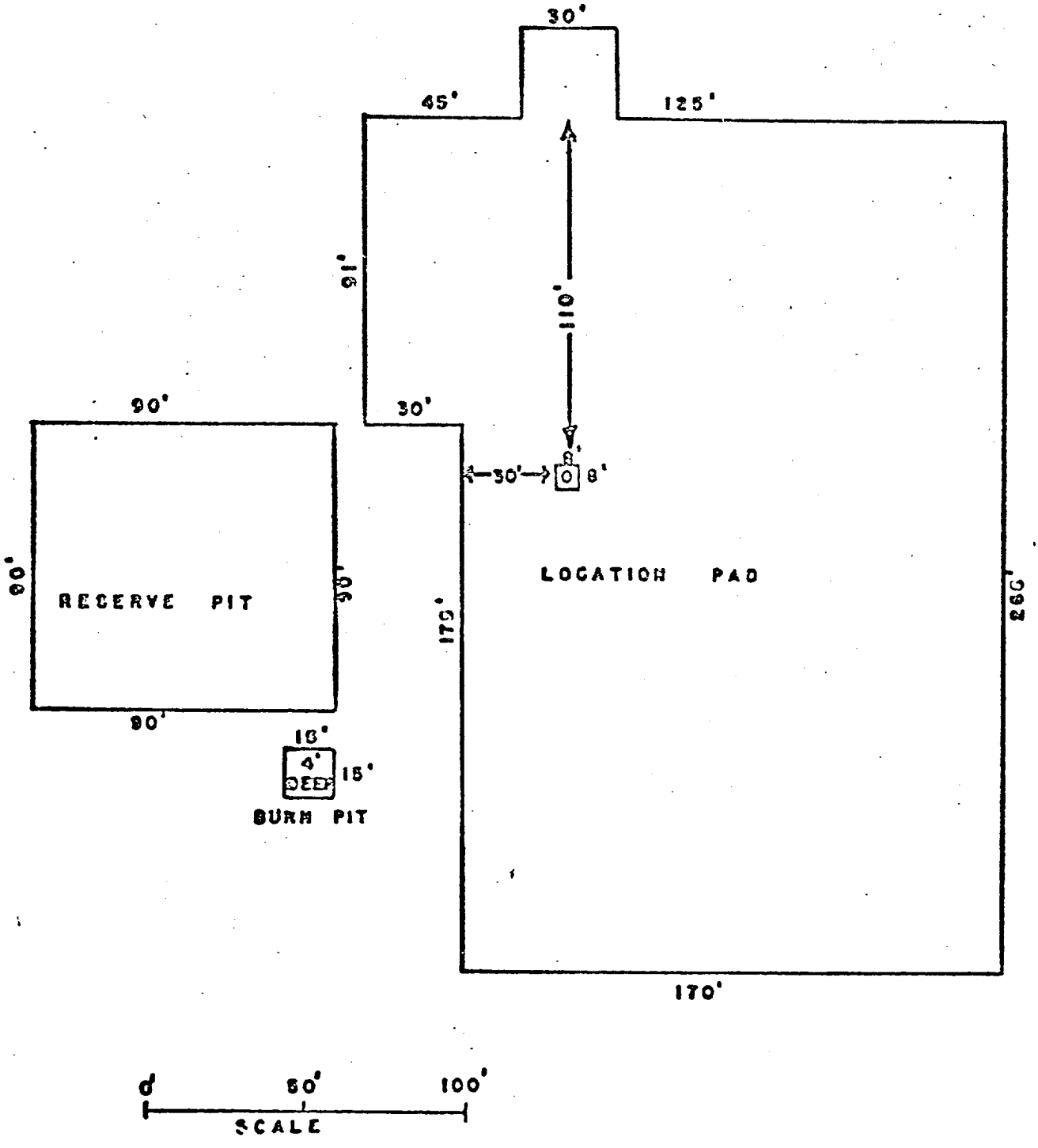


LOCATION FOR SANDY GROUND

PERRY R. BASS

BIG EDDY UNIT, WELL NO. 44

Loc: 1980' FNL, 660' FEL, Sec. 16,
T-21-S, R-30-E; Eddy County, N. M.



Bass Enterprises Production COMPANY
PROGNOSIS TO DRILL

LEASE: Big Eddy Unit

WELL NO: 44

DIVISION: West Texas

DISTRICT/AREA: Kermit/New Mexico

PROJECTED DEPTH:

EST. ELEVATION: 3304.7 GL
3320.7 KB

LOCATION: Surface - 1980' FNL & 660' FEL
Section 16, T-21-S, R-30-E
Eddy County, New Mexico

Proposed BH - Same as surface

GENERAL INFORMATION:

21 miles ENE from Carlsbad, New Mexico. Type Rig Rotary. Distance from nearest state maintained road 3-1/2 miles.

CASING AND CEMENTING:

1. Conductor Casing -

Depth 35 ft Size 21 " OD Wt 94 #/ft Grd H-40 Thd ST&C

Cement -

Desired Top Base Collar ft Type Cement Redi-mix

2. Surface Casing - 13-3/8"

Hole Size 17.5" Clearance 3.13"

Depth 500 ft

Casing 14.375 " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col		
0-500'	500'	48	H-40	ST&C	19200	19200	--	--	--	--

Cement -

Desired Top Surface Type Cement (slurry wt, yield factor & est sx) Cement with 525 sacks of Class C cement containing 2% CaCl and 1/4 lb. Flocele/sack. Thread lock bottom 3 joints and tack weld the factory side of the bottom 3 joints (14.8 PPG; 1.32 ft.^{3}/sx)

Percent excess 100 % Caliper Survey ____Yes, X No

Required ft ^{3} 650 includes excess.

Placement time 15 min Minimum Thickening Time 140 min

Head -

Accessories - 3 Halco spring type centralizers on bottom 3 joints. Float shoe and float collar.

3. First Intermediate Casing - 9-5/8"

Hole Size 12.25" Clearance 1.63"

Depth 3600 ft

Casing 10.625 " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	T3	BS
0-3600	3600	36	J-55	ST&C	129600	129600	--	--	--	--

Cement -

Desired Top Surface Type Cement (slurry wt, yield factor & est sx) Cement with 525 sacks Halco "Light" with 18% salt + 1/4 # Flocele/sack (13.2 PPG; 1.91 ft.^{3}/sx), followed by 400 sacks API Class "C" with 2% CaCl (14.8 PPG, 1.32 ft.^{3}/sx)

Thread Lock bottom 3 joints and tack weld factory side of collars on bottom 3 joints.

Percent excess 35 % Caliper Survey X Yes, ____ No

Required ft ^{3} 1525 includes excess Placement time 45 min.

Minimum Thickening time 140 min.

Head - API 2000 psi

Accessories - Float shoe, float collar and 3 bow spring centralizers - one on each bottom 3 joints

4. Second Intermediate Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____% Caliper Survey _____Yes, _____No

Required ft ^{3} _____ Placement time _____ min.

Minimum Thickening time _____min.

Head -

Accessories -

5. Third Intermediate Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____% Caliper Survey _____Yes, _____No

Required ft ^{3} _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

6. Intermediate Liner Casing -

Hole Size _____ Clearance _____

Depth _____ ft

Casing _____ " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB

Cement -

Desired Top _____ Type Cement (slurry wt, yield factor & est sx) _____

Percent excess _____% Caliper Survey ____Yes, ____No

Required ft ^{3} _____ Placement time _____ min.

Minimum Thickening time _____ min.

Head -

Accessories -

7. Production/Liner Casing 5-1/2"

Hole Size 8.5" Clearance 2.45"

Depth 13500 ft

Casing 6.05 " OD

Interval	Footage	Wt/Ft	Grade	Type Jt	Intvl Wt	Cum Wt	CALC SAFETY FACTORS Ten	Col	TB	BB
13500-9830	3670	20	N-80	LT&C	73400	73400	5.8	1.1	1.5	1.5
9830-5040	4790	17	N-80	LT&C	81430	154830	2.2	1.0	1.5	1.5
5040-4150	890	17	K-55	LT&C	15130	169960	1.6	1.0	1.2	1.2
4150-1370	2780	17	N-80	LT&C	47260	217220	1.6	1.9	1.8	1.8
1370-0	1370	17	N-80	B	23290	240510	1.6	4.9	2.1	2.1

Design Conditions -

BHP 6000 psi **TP** _____ psi **Drilling Mud** 11.0 #/gal

Completion Fluid 10.2 #/gal

Cement -

Desired Top 9000 ft **Type Cement** (slurry wt, yield factor & est sx) 20 Bbls. Halliburton Spacer followed by 550 sacks Class C Poz-A; 6% Gel + 18% KCL + 8% Halad-22 (13.2 PPG, 1.92 ft^3/sack) followed by 450 sacks Class H + 18% KCL + 8% Halad-22 (15.9 PPG, 1.22 ft^3/sk) Thread lock bottom 3 joints and tack weld factory side of collars on bottom 3 joints.

Percent excess 35 % **Caliper Survey** ____ Yes, ____ No *

Required ft ^{3} 1586 includes excess **Placement time** 90 min.

Minimum Thickening time 300 min. **Reciprocate while cementing** ____ Yes ____ No.

Head - API - 5000 psi

Accessories - Bow spring centralizers every 100' from TD to above the top of the Strawn (11650). Consider sandblasting and "ruff-coat" portion of casing after log evaluations.

*Caliper will be available from open hole logs for calculating cement volumes.

DRILLING MUD

1. Surface Hole -

Mud Type fresh water

Properties at Casing Point: Wt _____ #/gal Visc _____ sec.

WL _____ sec.

2. Below Surface Casing -

Properties:

Interval	Mud Type	Weight	PV/YP	Water Loss
0-3600'	brine-saturated	10-10.2	X	X (Due to formation salt)
3600-10400	fresh water	8.3		
10400-12500	brine water	10-10.2	None	None *
12500-13500	KCL Brine-Drispac	10-10.2	6/15	5 cc

*12.0 #/gal may be required for Wolfcamp-Strawn-Atoka section

3. Remarks -

Centrifuge _____ Degasser _____ Diesel Content ____ %

after breakover Desander _____ Pit-O-Graph _____

HOLE DEVIATION:

1. Vertical Hole -

Limits of Deviation:

Interval	Maximum Deviation
0-13500	50

Surveys required every 500.

Maximum Change in Deviation: 1 °/100'.

2. Directional Hole

Direction _____

Deviation -

	MD	TVD	Deviation
Vertical Hole			
Build Angle, _____°/100'			
Maintain Angle, _____°			
Drop Angle, 1°/100'			
Maintain Angle			

Target (s)

Maximum Change in Deviation _____°/100'.

LOG RUNS:

	Depth	0-500	500-3600	3600-TD	
	GR-CNL-Density			X	
**	Dual Laterolog-SFL			X	
	Dipmeter			X	
	Caliper		X		
	Sidewall Cores			X	

Remarks: * At discretion of wellsite geologist

** Notify logging company that GR is to be run instead of SP. There is a possibility of an intermediate run if there are significant Delaware shows. This run would consist of GR-CNL-Density, Dual Induction Laterolog and sidewall Cores.

DRILLING SAMPLES:

Catch ___*___ sets of drilling samples (5½" x 10½" bag) at 10' intervals from _____ ft to TD. Samples will be maintained at the wellsite unless otherwise specified as follows:

*At discretion of Geological Department

Sample sack should be completely labeled with operator's name, well name, and number.

RIG PROCEDURES:

1. Blowout Prevention -
   a. Nipple up API-2M BOPs (1-Hydril and 2-QRC's), on surface pipe as shown on attached diagram.
   b. Nipple up API-5M BOPs (1-Hydril and 2-ORC's) on intermediate or production casing as shown on attached diagram.
   c. Test BOPs to working pressure for 30 min upon installation and every 30 days thereafter.
   d. Tighten BOP and head bolts once each week.
   e. Work BOPs daily.
2. Measurements -
   a. Tally drill pipe at casing points, logging points, and otherwise as required by Company representative.
   b. Prepare detailed sketch to include length, OD, ID, and type connections of all tools run into hole on Company time.

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Catch ___*___ sets of drilling samples (5½" x 10½" bag) at 10' intervals from _____ ft to TD. Samples will be maintained at the wellsite unless otherwise specified as follows:

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   e. Work BOPs daily.
2. Measurements -
   a. Tally drill pipe at casing points, logging points, and otherwise as required by Company representative.
   b. Prepare detailed sketch to include length, OD, ID, and type connections of all tools run into hole on Company time.

3. Miscellaneous -

   a. Drill string should be stabilized while drilling all hole sizes.

   b. Continuous check on hydraulics should be made.

   c. Run consistometer tests on all cement used for production casing.

   d. After cement job, release pressure immediately if back pressure valves are holding, and begin nipple-up operations.

   e. Pressure test surface casing to 1000 psi before drilling plug; intermediate and production casing and/or liners to 1500 psi.

COMPLETION:

Procedure for completion will be outlined on separately issued Prognosis to Complete.

NOTIFICATION:

1. In case of emergency, please notify the following:

   Frank Raley
   District Superintendent
   Home (915) 586-3859
   Office (915) 586-2563

2. Prior to logging, please notify:

   W. T. Ford
   Geologist
   Home (915) 683-3850
   Office (915) 684-5723

PREPARED BY: CHECKED BY: APPROVED BY:

Attachments: Estimated Drilling Time
Minimum BOP Hook-up
Sample Catching Instructions
Proposed Mud Program

BASS ENTERPRISES PRODUCTION CO.

BIG EDDY UNIT #44

ANTICIPATED FORMATION MARKERS:

Elev: 3305'.

T/Rustler:	135	(+3170)
T/Salt:	505	(+2800)
B/Salt:	3335	(- 30)
T/Delaware Lime:	3605	(- 300)
T/Delaware Sand:	3655	(- 350)
T/Bone Spring:	7259	(-3954)
T/Wolfcamp:	10449	(-7144)
T/Strawn:	11655	(-8350)
T/Atoka:	11919	(-8614)
T/Morrow:	12505	(-9200)
T/Morrow Sds:	12805	(-9500)
T/Zone 6	13105	(-9800)
B/Morrow Sands:	13280	(-9975)

BASS ENTERPRISES PRODUCTION CO.
P. O. BOX 1178
MONAHANS, TEXAS 79756

April 21, 1975

New Mexico Oil Conservation Commission
Attn: Mr. W. A. Gressett
Drawer DD
Artesia, New Mexico 88210

Dear Mr. Gressett:

Subject: Application to Drill; Perry R. Bass, Big Eddy Unit #44. Location: 1980' From North Line, 660' From East Line; Section 16, T-21-S, R-30-E; Eddy County; New Mexico.

Attached is Form C-101, Application for Permit To Drill, and other required pertinent data, for the subject well -- Perry R. Bass, Big Eddy Unit #44.

Please contact me if additional information is required for approval by your office.

Yours very truly,

George A. Teer

George A. Teer
Staff Petroleum Engineer

GAT/blh
Attach.

New Mexico Oil Conservation Commission

Attachments:

1. OCC Form C-101, application to drill.
2. Location plat.
3. Plat of location layout.
4. Small scale map of existing roads with proposed access road. Approximately one (1) mile of additional access road with occasional turn-outs, will be required.
5. Schematic diagram of BOP equipment, manifold, kill-lines, etc.
6. Drilling prognosis.

In addition, please be advised:

1. Mud pits will be of steel.
2. No camp site or air strip is proposed.
3. Tank battery will be located near or adjacent to a corner of the location pad.
4. Water supply will be trucked to the well, secured from a rancher in the immediate area, or a water well will be drilled near the southwest corner of the location pad.
5. The land surface will be restored to as near original conditions as possible, and to the satisfaction of the U. S. G. S. after drilling and completion operations have ceased.
6. All detrimental waste will be disposed of in accordance with good disposal practices. A burn pit will be provided to burn paper and bury solid waste; see plat.
7. Well control equipment with 5000 psi choke manifold. The drill pipe BOP's and Hydril BOP's are to be opened and closed daily. The blank BOP's are to be opened and closed each trip.
8. PVT equipment, flow line sensor, and pump stroke counter are to be utilized while drilling the proposed well.