Form 9-3'4 C (May 1955)	DEPARTMEN	ED STATES		SUBMIT IN TR (Other instruc reverse sh	tta a	Form appro Budget Burg 5. LEASE DESIGNATIO L C067145	au No. 42-R1425. 20866
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1a. TYPE OF WORK	RILL 🛐 Gas 🔊 other	deepen []]		КП	7. UNIT AGREEMENT Big Eddy 8. FARM OR LEASE N Big Eddy	Unit
PERRY R.						9. WELL NO.	
	1178; Monahar	•		1/3		36 10. FIELD AND POOL,	OR WILDCAT
A. Advantation of well of At surface 1980 FSL At proposed prod. z Same.	(Report location clearly and and 560' FEL, one	Sec. 12,	T - 21 - S,	R-28-E-		Wildcat 11. sec., T., R., M., OI AND SUEVEY OR Sec. 12, T	TELK. AREA 215, R28E
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12 miles E	ENE of Carlsba	d.				Eddy	N. Mex.
15. DISTANCE FROM PRO LOCATION TO NEAR PROPERTY OF LEASE (Also to nearest d	as r	660'	16. NO. OF A 13	cees in lease		F ACRES ASSIGNED HIS WELL 320)
	FRILLING. COMPLETED,	First	19. PROPOSED	DEPTH	20. rotai	RY OR CABLE TOOLS	
OR APPLIED FOR, ON 2		well	13,	100'	R	otary	
21. ELEVATIONS (Show v	vhether DF, RT, GR, etc.)					22. APPROX. DATE V	VORK WILL START*
23.		PROPOSED CASIN	G AND CEM	ENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CANING	WEIGHT PER FO	T S	ETTING DEPTH		QUANTITY OF CEM	ENT
15"	11 3/4"	424	4	85	Suffici	ent to fill to	surface.
11''	8 5/8''	244 & 2	8 <u>#</u> 30	25	Suffici	ent to fill to	surface.
7 7/8"	5 1/2"	17# & 2	0# T	:	fill mi	400 sx nimum of l mp zone.	

See attached drilling prognosis for complete details.

MAY 241973 MAY 241973 ALTESIA, ACT DESIGN

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IN ABOVE SPACE DESCRIBE PROPOSED PROFESSED PROFESSED PROFESSED records is to decrea or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen cirectionally, give pertinent data on subsurface locations and measured and true vertical depths — Give blowout preventer program, if any.

signer Jom R. Crock	Engineer	May 23, 1973
(This space for Federal or State office use)	MAY 31 1973	
APPROVED BY	THEE	МИХ 81 1973 рате
CONDITIONS OF APPROVAL, IF ANY :		

*See Instructions On Reverse Side

NEW RECORD CONTRACTOR COMPANY WELL LOCATION FOR 76-177 STEP DICATION PLAT

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PERRY R. BASS, INC.

F. O. EDX 1178 MONAHANS, TEXAS

May 21, 1973

File: JDS-68-401

Mr. Jim Knoff U. S. Geological Survey P. O. Drawer U Artesia, New Mexico 88210

Re: <u>PERRY R. BASS, Big Eddy Unit #36; located 1980'</u> <u>FSL and 600' FEL of Section 12, T-21-S, R-28-E;</u> Eddy County, New Mexico.

Dear Sir:

Attached please find the following:

- (1) Form 9-331C, application to drill with complete drilling prognosis.
- (2) Location plat.
- (3) Plat of location layout.
- (4) Small scale map of existing roads with proposed access road.

In addition, please be advised that:

- (1) Mud pits will be steel.
- (2) No campsite or airstrip 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 or secured from a rancher in the immediate area.
- (5) The land surface will be restored to as near natural as possible and to the satisfaction of the USGS after drilling and completion operations have ceased.

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Mr. Jim Knoff U. S. Geological Survey Page 2. May 21, 1973

- (6) All detrimental waste will be disposed of in accordance with good disposal practices.
- (7) Well control equipment will consist of two 5000 psi WP ram-type BOP's and one 5000 psi WP Hydril BOP with choke manifold.
- (8) A pit volume totalizer will also be used while drilling thru' any suspected abnormally pressured zone.

If additional information is required, please contact the undersigned.

Sincerely,

Charles

Jack D. Semon Division Engineer

JDS/blh Attach.



PROPOSED DRILLING AND COMPLETION PROCEDURE

for

PERRY R. BASS BIG EDDY UNIT # 36 EDDY COUNTY, NEW MEXICO



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Operator: PERRY R. BASS

Lease and Well No: Big Eddy Unit #36; 13100' (Morrow)

Location: 1980' from the South line and 660' from the East line of Section 12, T21S, R28E, Eddy County, New Mexico.

Surface Casing:

15 " surface hole is to be drilled using a fresh watergel-lime mud to an approximate depth of 485'. 11 3/4" OD casing will be set at approximately 485'; setting is anticipated as follows:

No.		Thds Off		
Jts.	Description	Length	From	То
	Rotary correction	16	0	16
11	11 3/4" OD 42#/ft, H-40 ST&C casing	429	16	445
	Float collar	2	· 445	447
1	11 3/4" OD 42#/ft, H-40 ST&C casing	36	447	483
	Float shoe*	2	483	485

*The float shoe is to be equipped with lateral exits for cement as it is intended to rest part of the casing weight on bottom.

The bottom three (3) joints are to be sand blasted to remove mill scale and lacquer and in addition are to be welded and sealed with HOWCO-weld. Positive type centralizers are recommended; one set on each of the bottom three (3) joints. API modified thread lubricant is to be used on the casing threads.

Casing is to be cemented to the surface using API class "C" containing 2% CaCl_mixed at 14.0 FPG (yield 1.53 CF/sack); an estimated $^{2}450$ sacks will be required. A W.O.C. time of 24 hours will be observed after the plug is down.

Prior to drilling the float collar the casing is to be displaced with water (fresh water or brine) and the casing is to be pressure tested to 600 psi for 30 minutes. After drilling the shoe the casing is again to be pressure tested to 600 psi for 30 minutes.

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Intermediate Casing:

11" hole is to be drilled below the surface casing to an anticipated depth of 3025 (in top of Delaware) using a saturated salt fluid.

If any loss of drilling fluid occurs, lost circulation additives are expected to keep it at a minimum. Casing setting is anticipated as follows:

(NOTE: Hole conditions may require the use of a Halliburton DV tool for stage cementing of the casing).

No.		Thds Off		
Jts.	Description	Length	From	То
	Rotary correction	15	0	15
69	8 5/8" 24#/ft K-55 ST&C casing	2500	15	2515
13	8 5/8" 28#/ft H-40 ST&C casing	470	2515	2985
	Float collar	2	2985	2987
1	8 5/8" 28#/ft H-40 ST&C casing	36	2987	3023
	Float, shoe*	2	3023	3025

*The float shoe is to be equipped with lateral exits for cement as it is intended to rest part of the casing weight on bottom.

The bottom three (3) joints are to be sand blasted to remove mill scale and lacquer and in addition are to be welded and sealed with HOWCO-weld. Positive type centralizers are to be recommended; one set on each of the bottom three (3) joints. API modified thread lubricant is to be used on the casing threads.

Prior to running the 8 5/8" casing, a caliper survey is to be run to determine actual cement volume required.

The 8 5/8" OD casing is to be cemented to the surface using API class "C" containing 24 1/2# salt per sack and 1% CaCl_o by weight of cement (mixed at a slurry weight of 14.7 PPG, yield of 1.00 Grysach, ____ by sufficient API class "C" containing 2% CaCl_ (mixed, S. Maria 1973 internet of 1.53 CF/sack) to fill from the ANTING SACH ARTEND, AND DENIN 8 5/8" casing shoe to the base of salt section. A W.O.C. time of 24 hours will be observed after the plug is down.

Prior to drilling the float collar the 8 5/8" casing is to be displaced with fresh water and pressure tested to 1500 psi for 30 minutes. After drilling the float shoe the casing is again to be tested to 1500 psi for 30 minutes.

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Production Casing:

7 7/8" hole is to be drilled below the 8 5/8" casing point to total depth using a fresh water with flo-sal when required, viscosity of 32 to 34 seconds. Prior to drilling the Strawn, or about 11000', potassium chloride is to be added to the drilling fluid; from 2% to 4% will be required. Minimum drilling fluid weights, sufficient to control the well, are to be used to total depth. 5 1/2" OD casing is to be set at total depth and is anticipated as follows:

No.		Thds Off		
Jts.	Description	Length	From	To
	Rotary correction	14	0	14
310	5 1/2" OD 17#/ft N-80 LT&C casing	12386	14	12400
17	5 1/2" OD 20#/ft N-80 LT&C casing	656	12400	13056
	Float collar	2	13056	13058
1	5 1/2" OD 20#/ft N-80 LT&C casing	40	13058	13098
	Float shoe*	2	13098	13100

*The float shoe is to be equipped with lateral exits as it is intended to rest part of the casing weight on bottom.

The bottom three (3) joints are to be sealed with HOWCOweld. API modified thread lubricant is to be used on casing threads. Positive type centralizers are recommended to be included over any pay zones in conjunction with sand blasting to remove mill scale and lacquer.

5 1/2" casing is to be inspected using a combination mechanical optical and magnetic particle inspection full length. Casing is to be pressure tested externally, using Gator-Hawk to 3500 psi.

Prior to running the 5 1/2" OD casing a caliper survey is to be made to determine actual cement volume required to fill the annulus back to 8500' (1300' above the expected top of Wolfcamp). Casing will be cemented as follows:

Cement is to be API class "H" containing 1% CFR-2 and 3# KCl per sack, mixed at 15.8 PPG, yield of 1.10 CF/sack. An estimated 1400 sacks will be required to fill to 8500'.

After the plug is down, the 5 1/2" casing is to be cut off, equipment nippled down and the drilling rig released.

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Completion:

A well service unit is to be moved in and if necessary drilling-out equipment rigged up to drill out to a depth sufficient to test any potential pay zone.

It is anticipated that the well will be a singly completed (Morrow gas) well. 2 7/8" OD, 6.50#/ft, N-80, EUE, 8 round thread tubing is to be used with a suitable production packer. Tubing is to be pressure tested externally using Gator-Hawk to 6000 psi.

Logging:

Open hole logs (to be determined by geological department) are to be run prior to setting 5 1/2" OD casing.

A PDC (GR-N) Log is to be run after drilling out inside the 5 1/2" OD casing to a depth sufficient to test any potential pay zone. The PDC Log is to be correlated to open hole logs to assist in perforating.

Drill Stem Tests:

Three (3) DST's are anticipated, but will be taken as required by the geological department as shows are encountered.

Samples:

As required by geological department.

Estimated Formation Tops:

Elevation T/Salt B/Salt T/Delaware Sand B/Delaware Sand Wolfcamp Strawn Atoka Morrow Morrow Sand	3370 KDB 485 (+2885) 1895 (+1475) 3090 (+ 280) 6605 (-3235) 9820 (-6450) 11160 (-7790) 11410 (-8040) 11975 (-8605) 12155 (-8785)	
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Drift Dia	10.928	7.972	7.89	4.76	4.653	2.347
ID	11.084	8.097	8.017	4.892	4.778	2.441
Burst at MIY	1980	2950	2470	7740	9190	10570
Min Collapse	1020	1370	1640	6280	8830	9420
Cplg or Jt OD	12.750	9.625	9.625	6.050	6.050	3.668
Type Joint	ST&C	ST&C	STÅC	LT&C	LT&C	EUE T&C
Grade	07 - H	K-55	H-40	N-80	N - 80	N-80
Wt	42#	24非	28#	17#	20#	6.50#
OD	11 3/4"	8 5/8"		5 1/2"		2 7/8"

Casing and Tubing Data:

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