CASE 7233: BASS ENTERPRISES PRODUCTION CO. FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO

Co.

CASE NO.

7233

APPlication, Transcripts, Small Exhibits,

ETC.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 22 April 1981 EXAMINER HEARING IN THE MATTER OF: Application of Bass Enterprises Pro-) CASE duction Company for directional) drilling, Lea County, New Mexico. 7233 9 10 BEFORE: Daniel S. Nutter TRANSCRIPT OF HEARING APPEARANCES 15 16 For the Oil Conservation Ernest L. Padilla, Esq. 17 Division: Legal Counsel to the Division State Land Office Bldg. 18 Santa Fe, New Mexico 87501 19 20 For the Applicant: Conrad E. Coffield, Esq. HINKLE, COX, EATON, COFFIELD & 21 HENSLEY P. O. Box 3580 22 Midland, Texas 23

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	ERIC LONG	
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2	MR. NUTTER: We'll call next Case Number
3	7233.
4	MR. PADILLA: Application of Bass Enter-
5	prises Production Company for directional drilling, Lea County
6	New Mexico.
7	MR. COFFIELD: I am Conrad Coffield with
8	the Hinkle Law Firm, appearing on behalf of the applicant, and
9	I have one witness to be sworn.
10	
11	(Witness sworn.)
12	
13	ERIC LONG
14	being called as a witness and being duly sworn upon his oath,
15	testified as follows, to-wit:
16	
17	DIRECT EXAMINATION
18	BY MR. COFFIELD:
19	MR. COFFIELD: Mr. Examiner, before we
20	begin Mr. Long's testimony, I would like to point out that the
21	advertisement for this particular case and the way it is set
22	out here in the docket describes the well as the the sub-
23	ject well as the Montieth No. 3.
24	Actually, that well name has now
25	heen changed and it is called the Montieth "B" No. 1. and

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3
    well as such.
                          MR. NUTTER: Okay, the location and
5
    everything are correct, however?
6
                          MR. COFFIELD: Yes.
                          MR. NUTTER: Go ahead.
8
                          Mr. Long, would you please state your
9
    name, address, occupation, and employer?
10
                          Yes. My name is Eric Long. I'm employed
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    by Bass Enterprises Production Company in Midland, Texas, as
12
    a petroleum engineer.
13
                         'Are you familiar with Bass' application
14
    in this case?
15
                          Yes, sir, I am.
16
                          Are you familiar with the property and
17.
    the proposed directionally drilled well involved here?
18
                          Yes, sir, I am.
19
                          Have you previously testified before the
20
    Division as a petroleum engineer?
                          No, I have not previously testified.
                          Would you please give a brief resume
    for the Examiner of your educational background and work ex-
    perience?
                          I'm a graduate of Texas A & M University
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and hold a BS degree in petroleum engineering.

Q

a

I've worked for Bass Enterprises for eleven months and have several years of cumulative experience in various areas of petroleum industry.

While with Bass my primary areas of interest have concentrated in New Mexico. I've engineered all of our projects in the Northeast Lovington Penn Field from a production and reservoir standpoint.

MR. COFFIELD: Mr. Examiner, do you have any other questions of the witness?

MR. NUTTER: No, the witness is qualified.

Q All right, Mr. Long, would you please state what it is that Bass seeks by this application?

Permission to directionally drill our Montieth "B" No. 1 into the Penn or Strawn formation from a surface location 1980 feet from the east line and 2130 feet from the south line in Unit J, Section 13, Township 16 South, Range 36 East, to a bottom hole location in the north half of the southeast quarter of the section, not closer than 510 feet to the north, south, east, or west lines of the proration unit.

Q. Mr. Long, refer to what we've marked as Exhibit One and explain that exhibit to the Examiner, please.

Yes, sir. Exhibit One is a map of the

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area surrounding the proposed directional well in Section 13. Acreage in which Bass has an interest is highlighted in yellow. Section 13 currently contains two producing wells and a drilling well.

Give a brief history of Bass' activity in this section, briefly.

The Montieth No. 1, an 11,390 foot wildcat located 810 feet from the south line and 660 feet from the east line, was spudded August, 1980, and TD'ed in October of 1980. Casing was set and the Strawn horizon perforated and acidized. The well potentialed for 564 barrels of oil and 925 Mcf plus no barrels of water per day.

The Montieth "A" No. 1, which was previously the Montieth No. 2, an 11,477 foot Strawn test, located 1980 feet from the north line and 510 feet from the east line, was spudded in October of 1980 and TD'ed in November of 1980. Casing was set and the Strawn perforated. The interval was acidized and potentialed for 193 barrels of oil, 6 barrels of water, and 312 Mcf gas per day.

The well has now been placed on pump, averaging production of about 100 barrels a day.

All right, Mr. Long, now would you please give a history of the proposed directional well and its current status?

9-7

 A. The Montieth "B" No. 1 was spudded February 23rd, 1981, and drilled to total depth of 11,428 feet. Mud logs, electric logs, and a drill stem test performed at the anticipated pay interval from 11,200 feet to 11,380 feet showed the formations to be commercially nonproductive. These formations included the Glorieta, Abo, Wolfcamp, Cisco, and Strawn.

Exhibit Two is a diagrammatic sketch of the Montieth "B" No. 1, showing its current condition. I'd like Mr. Nutter to note that five cement plugs were set effectively isolating the earlier list of formations.

Q. Why is it that Bass proposes to directionally drill this well, Mr. Long?

As stated earlier, encountered formations were commercially nonproductive in the existing wellbore.

We believe that the projected directional bottom hole location will encounter better reservoir quality rock, thus more efficiently draining the proration unit and protecting the correlative rights of all parties involved.

To directionally drill the well at this time will result in substantial savings over the drilling of another wellbore.

Now would you go, please, to Exhibit
Three and explain what that exhibit shows?

-10-8

A. Exhibit Three is an economic comparison between the drilling of a directional well versus the drilling of another wellbore. We had estimated that the directional drilling will add an additional \$300,000 to the cost of the original test.

Note that the estimated cost of a new wellbore prior to completion is \$673,000, which includes an incremental rig up charge of \$50,000 to be saved by directionally drilling the well.

Thus a savings of \$373,000 will result if the well is directionally drilled versus drilling a new well at this time.

Q. Now would you please discuss for the Examiner just how Bass plans to drill this directional hole?

A. Prior to spotting the five plugs a multishot directional survey, shown as Exhibit Three-A, was performed to give us an accurate location for the existing wellbore. Then the plugs were spotted. The well was then kicked off by the use of a downhole motor at 6,991 feet with 7-7/8ths inch bit.

As of this morning at 6:00 o'clock,

1559 feet of directional hole has been drilled.

Four and Four-A and explain those exhibits to the Examiner?

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Okay, finally would you go now to Exhibits

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                           Exhibit Four is a proposed directional
    drilling plan. Shown is the kickoff point at 6991, the
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    building of the deviation to about 18-1/2 degrees from kickoff
    point, to 8220 feet; the maintaining of that angle to the
    projected bottom hole location.
                           I'd like to bring to your attention
 7
    cross section A-A', or what I have indicated as A-A' on there.
    That currently shows the location of our directional well,
10
    according to the recent surveys.
                           MR. NUTTER: A would be the point at
11
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    which you kicked off.
13
                           Yes, sir.
                           MR. NUTTER: Which was northwest of the
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     surface location.
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                           That is correct.
                          MR. NUTTER: And now you have come back
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18
    to A' -
                           Yes, sir.
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                           MR, NUTTER: -- as of now?
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                           As of about two days ago. I didn't
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    have this morning's directional report.
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                           MR. NUTTER: So you're heading for your
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     target area at this --
                           Hearing for the target area at this time
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Now Exhibit Four-A is a schematic interpretation showing legal well locations within the proration unit as spelled forth by field rules for the Northeast Lovington Penn.

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ration units consisting of north, south, east, or west half of a governmental quarter section and (b) locating each well within 150 feet of the center of a governmental quarter quarter section.

I'd like you to note how our proposed bottom hole location falls within a 150-foot radius of the center of the quarter quarter section as required by the field rules.

Q. All right, Mr. Long, would you please summarize or reiterate for the Examiner your proposal to directionally drill this Montieth "B" No. 1 Well?

manner as proposed will allow Bass to (a) encounter better reservoir quality rock and (b) more efficiently drain the 80-acre proration unit; (c) protect the correlative rights of all parties involved; (d) prevent economic waste by saving \$373,000 as opposed to drilling an additional test; and (e) abide by all the established rules for the Northeast Lovington Penn Field.

1		∃3 //
2	Q	Mr. Long, were these Exhibits One
3	through Four-A prepar	ed by you or under your supervision?
4	Ā.	Yes, they were.
5		MR. COFFIELD: Mr. Examiner, I move the
6	admission of Exhibits	One through Four-A.
7		MR. NUTTER: Exhibits One through Four-A
8	will be admitted in e	
9		MR. COFFIELD: And I have nothing further
10		MR. NUTTER: Are there any questions of
11	Mr. Long? He may be	excused.
12		Do you have anything further, Mr. Cof-
13	field?	
14 -		MR. COFFIELD: No, sir, I do not.
15		MR. NUTTER: Does anyone have anything
16	they wish to offer in	Case Number 7233?
17		We'll take the case under advisement.
		THE II CORE CHE COST MINEST ANY LOCALIST
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19		(Hearing concluded.)
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CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Souly W. Boyd CSR)

I do hereby certify that the foregoing Is a complete record of the proceedings in the Examiner hearing of case o. 7253, heard by the on $\frac{4/22}{19.81}$.

Jetuur, Examiner

Oll Conservation Division

SALLY W. BOYD, C.S.

Page _____1

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
22 April 1981

EXAMINER HEARING

IN THE MATTER OF:

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Application of Bass Enterprises Pro-) duction Company for directional) drilling, Lea County, New Mexico.)

7233

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

Conrad E. Coffield, Esq.
HINKLE, COX, EATON, COFFIELD &
HENSLEY
P. O. Box 3580
Midland, Texas

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	Applicant	Exhibit	Two,		-		9		
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1 MR. NUTTER: We'll call next Case Number 3 7233. MR. PADILLA: Application of Bass Enterprises Production Company for directional drilling, Lea County, New Mexico. 7 MR. COFFIELD: I am Conrad Coffield with the Hinkle Law Firm, appearing on behalf of the applicant, and I have one witness to be sworn. 10 11 (Witness sworn.) 12 13 ERIC LONG 14 being called as a witness and being duly sworn upon his oath, 15 testified as follows, to-wit: 16 17 DIRECT EXAMINATION 18 BY MR. COFFIELD: 19 MR. COFFIELD: Mr. Examiner, before we 20 begin Mr. Long's testimony, I would like to point out that the 21 advertisement for this particular case and the way it is set 22 out here in the docket describes the well as the -- the sub-23 ject well as the Montieth No. 3. 24 Actually, that well -- name has now

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     8
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     9
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3	drilling plan. Shown	n is the kickoff point at 6991, t	he
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21	A	As of about two days ago. I did	in't
22	have this morning's d	irectional report.	
23		MR. NUTTER: So you're heading	for your
24	target area at this -	• • • • • • • • • • • • • • • • • • •	
25	A.	Hearing for the target area at i	this time

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Now Exhibit Four-A is a schematic interpretation showing legal well locations within the proration unit as spelled forth by field rules for the Northeast Lovington Penn.

ration units consisting of north, south, east, or west half of a governmental quarter section and (b) locating each well within 150 feet of the center of a governmental quarter quarter section.

I'd like you to note how our proposed bottom hole location falls within a 150-foot radius of the center of the quarter quarter section as required by the field rules.

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reservoir quality rock and (b) more efficiently drain the

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of all parties involved; (d) prevent economic waste by saving

\$373,000 as opposed to drilling an additional test; and (e)

abide by all the established rules for the Northeast Lovington

Penn Field.

and the second s	13 //
Q	Mr. Long, were these Exhibits One
through Four-A prepar	ed by you or under your supervision?
A.	Yes, they were.
	MR. COPFIELD: Mr. Examiner, I move the
	MR. NUTTER: Exhibits One through Four-A
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	MR. NUTTER: Does anyone have anything
wish to offer in	Case Number 7233?
	We'll take the case under advisement.
	(Hearing concluded.)
	·
	A. admission of Exhibits will be admitted in e Mr. Long? He may be field?

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CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR)

I do hereby certify that the foregoing is a complete remains of the proceedings in the Examiner of the Office do. 7233, heard by me on 4/22 19.81. uur, Examiner Oll Conservation Division



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

May 1, 1981

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

	Re: CASE NO. 7233
Mr. Conrad E. Coffield Hinkle, Cox, Eaton, Coffield	ORDER NO. R-6675
& Hensley Attorneys at Law	Applicant:
P. 0. Box 3580	Applicant:
Midland, Texas 79702	Rasa Entananiasa Onadustias C
	Ba <u>ss Enterprises Production</u> C
Dear Sir:	
	copies of the above-referenced
Division order recently of	entered in the subject case.
Yours very truly,	
to a distance	
JOE D. RAMEY	
Director	
JDR/fd	
Copy of order also sent	to:
Hobbs CCD	
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Other	
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7233 Order No. R-6675

APPLICATION OF BASS ENTERPRISES PRODUCTION CO. FOR DIRECTIONAL ORILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 22, 1981, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 30th day of April, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Base Enterprises Production Co., seeks authority to directionally drill its Montieth "B" Well No. I, formerly known as its Mentieth Well No. 3, the surface location of which is 2130 feet from the South line and 1988 feet from the East line of Section 13, Township 16 South, Range 36 East, Northeast Lovington-Pennsylvanian Pool, and drill said well in an easterly direction to bottom it not closer than 510 feet to the outer boundary of the dedicated unit, being the N/2 SE/4 of said Section 13.
- (3) That the directional drilling of the above-described well would be accomplished by plugging said well back from its priginal total depth of 11,428 feet to a plugged back depth of 6991 feet, setting a whipstock and then directionally drilling in an easterly direction, bottoming said well at an approximate depth of 11,500 within 150 feet of a point 150 feet south and 1300 feet east of the surface location.

-2-Case No. 7233 Order No. R-6675

(4) That the applicant should be required to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

IT IS THEREFORE ORDERED:

(1) That the applicant, Bass Enterprises Production Co., As hereby authorized to directionally drill its Montieth "B" Well No. 1, the surface location of which is 2130 feet from the South line and 1980 feet from the East line of Section 13, Townphip 16 South, Range 36 East, Northeast Lovington-Pennsylvanian Pool, and drill said well in an easterly direction to bottom it not closer than 510 feet to the outer boundary of the dedicated unit, being the N/2 SE/4 of said Section 13.

PROVIDED HOWEVER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

- (2) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (3) 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 the day and year hereindesignated.

> STATE OF NEW HEXICO OIL CONSERVATION PIVISION

JOE D. RAHEY

Director

- CASE 7229: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Morrow-Pennsylvanian location of its Sharp "QS" Com. Well No. 1 to be drilled 660 feet from the South and East lines of Section 4, Township 17 South, Range 26 East, the S/2 of said Section 4 to be dedicated to the well.
- CASE 7184: (Continued from March 11, 1981, Examiner Hearing)

Application of Harvey E. Yates Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the E/2 of Section 13, Township 17 South, Range 28 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

- CASE 7230: Application of Caribou Four Cornera, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaverde and Callup formations underlying the S/2 SW/4 of Section 7, Township 29 North, Range 14 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7231: Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaverde and Gallup formations underlying the S/2 SE/4 of Section 11, Township 29 North, Range 15 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7232: Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Mesaveráe and Gallup formations underlying the E/2 SW/4 of Section 12, Township 29 North, Range 15 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7233: Application of Bass Enterprises Production Co. for directional drilling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to directionally drill its Montieth Well No. 3, the surface location of which is 2130 feet from the South line and 1980 feet from the East line of Section 13, Township 16 South, Range 36 East, Northeast Lovington-Pennsylvanian Pool, and drill said well in an easterly direction to bottom it not closer than 510 feet to the outer boundary of the dedicated unit, being the N/2 SE/4 of said Section 13.
- CASE 7234: Application of Getty 0il Company for a dual completion, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Farming E Well

 No. 1-E located in Unit I of Section 2, Township 24 North, Range 6 West, to produce oil from the

 Gallup formation thru the casing-tubing annulus and gas from the Dakota formation thru tubing.

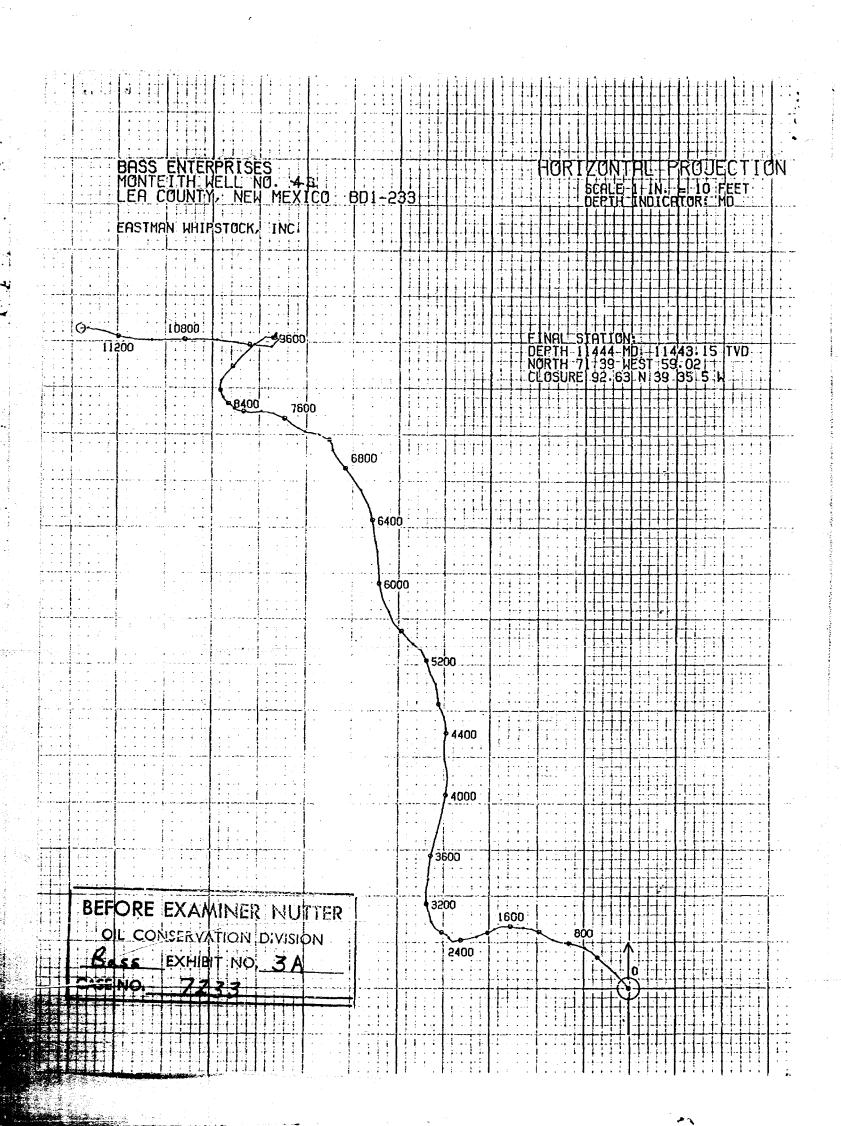
STATUS AS OF 6 A.M. 4/21/81 Location 1980' FEL & 2310' FSL Elevations 3859.9' GL Sec. 13, T165, R36E 3878.4' KB Lea County, New Mexico Spudded 2/23/81 11-3/4" 0350' cmtd w/300 sx Class "C" w/2% CaCl + 1/4#/sk Celloseal + 2% gel. Yield 1.51 cu ft/sk, 14.1 ppg wt. Circ 75 sx. 8-5/8" csg 04810' cmtd w/1625 sx Celloseal & 200 sx Class "C" + 2% CaCl₃. Circ 100 sx. 7-7/8" OH Whipstocked @6991' Drlg @8300' #5 plug 6991-7211' Class "H" + 0.05% 20-1/4° E CFR-2 + 5% sand, 1.00 yield, 17.5 ppg 7211'-7400' Class "H" w/20% SF-4 + 0.4% TF-4, 1.25 yield, 16.6 ppg Δ #4 plug 8318'-7934' 100 sx Class "H" neat Δ 1.18 yield, 15.6 ppg #3 plug 9532'-9148' 100 sx Class "H" neat Δ 1.18 yield, 15.6 ppg Δ #2 plug 10270'-9886' 100 sx Class "H" neat \triangle . $\overline{\triangle}$ 1.18 yield, 15.6 ppg Δ #1 plug 11381-10613' 200 sx Class "H" neat BEFORE EXAMINER NUTTER 1.18 yield, 15.6 ppg \triangle OIL CONSERVATION DIVISION Δ Bass EXHIBIT NO. 2 1,428' TD

MONTIETH B NO. 1
EXHIBIT NO. 3
INCREMENTAL ECONOMIC COMPARISON
DIRECTIONAL DRILL VS. NEW WELLBORE

NEW WELLBORE		DIRECTIONAL DRILL				
Rig up charges Projected Cost to TD (prior to completion)	\$ 50,000 623,000	Projected addition of directional we to completion)	onal cost ellbore (prior \$300,000			
			·			
TOTAL	\$ 6 73,000	and the second s	\$300,000			

Incremental savings of \$373,000 if directionally drilled.

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Base EXHIBIT NO. 3
CASE NO. 7233



BASS ENTERPRISES MONTEITH WELL NO. 4

LEA COUNTY, NEW MEXICO BD1-233

EASTMAN WHIPSTOCK, INC. GYBOSCOPIC MULTISHOT SURVEY WT481-G0221

SURVEYOR: TIM STEPHENS MAGNETIC MULTISHOT SURVEY (01-48001) EY WT481-80222 SURVEYOR: TIM STEPHENS (4800'-11444')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL DIRECTION: S 90 DEG. O MIN. E

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

BASS ENTERPRISES

MONTEITH WELL NO. 4

LEA COUNTY, NEW MEXICO BD1-233

COMPUTATION
TIME DATE
01:12:31 00--00

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	300.	0.45	N 48 W			2.65 N	2.58 W	3.69	N 44 12 W	0.25	
	400.	0 30	N 49 W	299.97 399.97	<u>-2.58</u>	2.65 N 3.37 N	<u> </u>	4.78	N 45 11 W	0.25	
	400.	0.30	14 42 W	377.77	-3,39	3.37 14	3.37 W	4.70	M TI COP M	0.20	
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	600.	0.30	N 73 W	599.96	-4.78	4.40 N	4.78 W	6.50	N 47 23 W	0.23	
	700.	0 30	N 68 W REE			4.69 N	5.60 W	7.31	N 50 4 W	0.04	
4. T	800.	0.30	N 83 W 🎏	夏 799. 須 雪		77 5 4.91 N	6.44 W	8,10	N_52_43 W	0.13	
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	1000.	0/30	_N 67 W 🤏	>222.24	- 8. (5)	5.25 N	. 8.15 W	9.70	N 57 11 W	0.13	
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	1200.	0 30	N 62 W	1199.94	-9.65	6.14 N	9.65 W	11.44	N 57 30 W	0.07	
	1300.	0.30	N 77 W	1299.93	-10.46	6.45 N	10.46 W	12,29	N 58 21 W	0.13	
	1400.	0.30	N 88 W	1399.93	-11.32	6.58 M	11.32 W	13.09	N 59 54 W	0.10	
	1500.	0 15	N 86 W	1499,93	-11.98	6.60 N	11.78 W		N 61 9 W	0.25	
	1600.	0 30	N 74 W	1599.93	-12.62	6.71 N	12.62 W	14.30	N 62 O W	0.26	
	1700.	0 30	S 78 W	1699.92	-13.49	6.74 N	13.49 W	15.08	N 63 27 W	0.24	
	1800.	0.30	S 58 W	1799.92	-14.29	6.42 N	14.29 W	15.67		0.17	2.
,14 F	1900.	0 0	్ర్లో 0	1899.92	-14.66	6.18 N	14.66 H	15.91	N 67 8 W	0.50	
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	2000.	0.30	_ S 71 W	1999.92	-15.08	6.04 N	15.08 W	16.24		0.50	
	2100.	0 15	S 69 W	2099.91	-15.69	5.82 N	15.69 N	16.74	N 69 39 W	0.25	
	2200.	0 30	S 65 W	2199.91	-16.29	5.56 N	16.29 W	17.22	N 71 9 W	0.25	
	2300.	0 30	N 87 W	22 <u>99.91</u>	-17.14	5,40 N	17.14 W	17.97	N 72 31 W	0.24	
	2400.	0.30	S 69 N	2399.90	-18.00	5.26 N	18.00 W	18.75	N 73 42 W	0.21	
					معورهو إسراق	ent de may to t	و د محورت بحد د			5. 4 5	
	2500.	0.30	୍ର 85 <u>ଖ</u> ୁ	2499,90	-18.85	5.07 N	18.85 W		N 74 57 W	0.14	
	2600.	0 15	NOE	2599.90	-19.28	5.46 N	19.28 N	20.03	N 74 11 W	0.58	
	2700.	0 15	N 67 W	2499.90	-19.50	5.80 N	19.50 W	20.35	N 73 26 W	0.28	
· ·	2800.	0 30	N 65 W	2792.89			20.10 N/	9 21.00_		0.25	
	2900.	0.30	N 48 W	2899.89	-20.83	6.55 N	20.83 W	'η 21.83 '	N 72 33 W	0.15	
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BASS ENTERERISES MONTEITH WELL NO. 4 LEA COUNTY. NEW MEXICO BD1-233

TIME DATE
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	MEASURED	DRIFT	DRIFT	TRUE VERTICAL	VERTICAL	RECTAN (SILLAR	01.03	BURE	DOG LEG
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	3000.	0_30	N 15 W	2999.89	=21.28_	7.28 N	_21.28 W_	22.49_	N_71_6_W_	0.28
	3100.	0,30	N 15 W	3099.88	-21.50	8.13 N	21.50 W	22.99	N 69 18 W	0.00
	3200.	0 45	N 16 W	3199.88	-21.79	9.18 N	21.79 W	23.65	N 67 10 W	0.25
	3300	0_45_	N_10_E	3299.87	21.86_	10.47.N	21.86 W	24.24	.N.64 24.W.	0.34
	3400.	0 45	N 10 E	3399.86	-21.63	11.76 N	21.63 W	24.63	N 61 28 W	0.00
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<u> </u>	<u>3500.</u>	0.45	N 2 W	3499.85		13.07_N	21.54 W		.N.58.46 W	0.16
111	3600.	0 45	N 18 E	3599.84	-21.36	14.36 N	21.36 W	25.74	N 56 6 W	0.26
	3700.	0 45	N 14 E			15.61 N	21.00 W	26.17	N 53 22 W	0.05
<u></u>	3800.	0 45	N 18 E/2) 3799. 42 2	-20,647	16.87 N	20.64 W	26.66	N 50 44 W	0.05
	3900.	1 15	N 11 E	, 3877.6r-	77 89 2769	8548.56 N	~20.20 W	27.44	N 47 26 W	0.51
	4000.	1 30	N 14 E	\$999.78	- 49.69	20.90 N	19.69 W	28.71	N 43 17 W	0.26
<u> </u>	4100.	1 0	N 4 W	4077.76	19.50	23.07 N	19.50 W	30.20	N 40 12 N	0.63
:.	4200.	1 0	N 19 W	4199.74	-19.84	24.77 N	19.84 W	31.74	N 53 42 7	0.24
	4300.	0.45	N 14 E	4299.73	-19,91	26.27 N	19.91 W	32.97	N 27 9 W	0.55
	4400.	0.45	N 7 E	4399.72	-19.67	27.36 8	19.67 9	33.86	N 3: 3: 8	0.00

	4500.	.0 30	N 16 W	4499.71	19.76_	28.64 N	19.76 W	34.79	N 34 36 H	0.35
	4600.	0 15	N 16 W	4599.71	-19.94	29.27 N	19.94 W	35.41	N 34 46 W	0.25
	4700.	0.30	N 27 N	4699.71	-20.18	29.88 N	20.18 W	36.05	N 34 2 W	0.26
	4800.	0.30	N 21 W	4799.71	-20.53	30.68 N	20.53 W	36.91	N 33 48 W	0.05
	4900.	0 45	N 7 E	4899.70	-20.66	31.75 N	20.66 W	37.88	N 33 3 W	0.39
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	5000.	0.30	N 28 W	4999.69	-20.84	32.80 N	20.86 W	38.87	N 32 27 W	0.45
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ļ.,	5200.	0 45	N 13 W	5199.67	-21.91	35.42 N	21.91 W	41.65	N 31 45 W	0.30
	5300.	0.45	N 41 W	5299.67	-22,50	36.58 N	22.50 W	42.95	N 31 36 H	0.36
	5400.	0 30	N 67 W	5399.66	-23,33	37.21 N	23.38 W	43.95	N 32 8 W	0.37
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BASS ENTERPRISES

MONTEITH WELL NO. 4

LEA COUNTY, NEW MEXICO BD1-233

COMPUTATION PAGE NO. 3
TIME DATE
01:12:31 00--00

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	6000.	1 0	N 2 W	5999.60	-27.10	43.83 N	27.10 W	51.53	N 31 44 W	0.43
	£100.	1 0	N 2 W	6099.59	-27.16	45.57 N	27.16 W	53.05	N 30 48 W	0.00
	6200.	, 1 O	N 8 W	6199.57	-27.31	47.31 N	27.31 W	54.63	N 30 O W	0.10
	6300.	1 O	N 12 W	6299.56	-27.62	49.03 N	27.62 W	56.27	N 29 24 W	0.07
	6400.	1 0	N 3 W	6399.54	-27.84	50.76 N	27.84 W	57.89	N 28 45 W	0.16
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	6500.	1 0	N 28 W	6499.53	-28.31	52.42 N	28.31 W	59.58	N 28 22 W	0.43
127	6600.	1 0	N 25 W	6599.51	-29.09	53.99 N	29.09 W	61.32	N 28 19 W	0.05
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	7300.	1 0	N 75 W	7299.47	-33,62	E9,99 N	33.62 W	68.77	N 29 16 W	0.5%
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	7500.	0.45	N 36 M	7499.44		60.88 N	34,23 k		N 30 45 W	0.62
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	8100.	0 15	S 84 W	8099.41	-42.28	62.53 N	42.28 N	75.48	N 34 4 W	0.31
	8200.	0 15	N 38 N	8199.41	-42.67	62.69 N	42.67 W	75.83	N 34 14 W	0.24
	8300.	0 15	N 27 W	8299.40	-42,90	63.06 N	42.90 U	76.27	N 34 14 W	0.05
¥.	8400.	0 15	N 78 W	8399.40	-43.23	63.3: N	43.23 W	76.67	N 34 20 W	0.22
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	8500.	0 15	H 12 H	8499.40	-43.53	63.60 N	43.53 W	77.97	N 34 23 N	0.27
	8600.	0 15	N 56 W	8599.40	-43.76	63.96 N	43.76 W	77.50	N 34 23 W	0.19
	8700.	0 15	N 2 E	8699.40	-43.95	64.33 N	43.95 W	77.91	N 34 21 W	0.24
	8800. 8866	0 15	N. 28, W	8799.40	-44.03	64.75 N	44.05 W	78,31	N.34.14 W	0.13
	8900,	0. 15	N 12 E	8899.40	-44.11	65.17 N	44.11 W	78.70	N 34 5 W	0.17
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BASS ENTERERISES MONTEITH WELL NO. 4 LEA COUNTY, NEW MEXICO BD1-233

COMPUTATION PAGE NO. 4
TIME DATE
01:12:31 00--00

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	MEASURED	DRIFT	DRIFT	VERTICAL	VERTICAL	REC'TANG	ULAR	C L 0	SU'RE	DOG - LEG
	DEPTH	ANGLE	DIRECTION	DEPTH	SECTION	COORDIN			DIRECTION	SEVERITY
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	9000.	0 30	N 13 E	8999.40	-43,97	65.81 N	_43. <i>97</i> _W_		N 33 45 W	0.25
Table (9100.	0.30	N 53 E	9099.39	-43.50	66.53 N	43,50 W	79.49	N 33 11 W	0.34
	9200.	0 45	N 32 E	9199.39	-42.77	67.33 N	42.77 W	79,77	N 32 26 W	0.34
	9300.	10_	N 50 E	9299.38	-41.77	68.48 N	41.77 W		_N 31 23 W	0,37
	9400.	1 0	N 41 E	9399.36	-40.53	69.70 N	40.53 W	80.63	N 30 11 W	0.16
, a - 22										
	9500.	0.45	N 73 E	9499.35	=39.27	70.52 N	39.27 W	80.71	N. 297. W.	0.54
	9600.	0 15	S 62 E	9599.34	-38.42	70.44 N	38.42 W	80.23	N 28 37 W	0.60
,	9700.	0 15	N 7 W #555	3 9699.3 4 55		.70.64 N	38.13 W	80.27	N 28 22 W	0.44
	2800.	0 0	_ o <i>E</i> SS	/ 9799.3/1 ^m	£-138,115	70.85 N	38.45.W	80.47	N 28 18 W	0.25
	9900.	0 15	_ ธ 58 ผ	9899.54 ³³	⁰ -35-34	54070.74 N	138.34. W	80.46	N 28 27 W	0.25
			V			in the state of th		[]		er.
<u> </u>	10000.	0 15	_N 78 E 💥	39999-34	-38.22	70.45 N	38.22 W	80.15	N 28 29 W	0.49
	10100.	0 15	S 15 E	10099:34	~37.89°	‴ 70. 25 N	37,89 W	79.81	N 28 20 W	0.34
	10200.	1 15	N 78 W	10199.33	-38.64	69,45 N	138.64 W	79.48	N 39 5 N	1.38
	10300.	0.15	N 87 W	10299.32	-39.93	69.62°N	39.93 W	90,26	-N 29 50 W	i.00
	10400.	1 0	N 88 W	10399.31	-41.02	69.67 N	41.02 N	80.85	N 30 29 W	0.75
	St. Ashar v									
	10500.	10	N 76 W	10499.30	-42.75	11.149.21.N.13	142.Z5.H_		_N_31_27_W_	0.21
	10600.	1 0	N 87 W	10599.28	-44.47	70.17 N	44.47 W	83.08	N 33 33 M	0.19
	10700.	1 0	N 87 W	10699.27	-46.22	70.26 N	46.22 W	84.10	N 33 20 W	0.00
	10800.	i 0	S 87 W	10799.25	-47.96	70.26 N	47.26 0	85.07	N 34 19 W	0.10
	10900.	1 0	S 89 W	10899.24	-49.70	70.20 N	49.70 W	86.02	N 35 18 W	0.03
	11000.	1 0	S 88 W	10999.22	-51.45	70.16 N	51.45 W	27.00	N 36 15 W	0.02
	11100.	1 0	N 83 W	11099.21	-53.19	70.23 N	53.19 W	88.10	N 37 8 W	0.16
	11200.	1 0	N 75 W	11199.19	-54.90	70.57 N	54.90 W	89.41	N 37 53 W	0.14
	11300.	1 0	N 68 W	11299.17	-56.56	71.12 N	56.56 U	90.87	N 38 30 M	0.12
	11400.	1 0	S 33 W	11399.16	-58.26	71.42 N	58.26 W	92.17	N 39 12 W	0.42
				: .						. 4
	11/44.	1 0	8 88 W	11443.15	-59.03	71.39 N	59.03 W	22.64	N 39 35 W	0.00
			· · · · · · · · · · · · · · · · · · ·							
T = #,					*			j.		

FINAL CLOSURE - DIRECTION: DISTANCE:

N 39 DEGS 35 MINS W 92.64 FEET

Elevations 3859.9' GL 3878.4' KB Spudded 2/23/81 Location 1980' FEL & 2310' FSL Sec. 13, T16S, R36E Lea County, New Mexico 11-3/4" @350' cmtd w/300 sx Class "C" w/2% CaCl + l/4#/sk Celloseal + 2% gel. Yield 1.51 cu ft/sk, 14.1 ppg wt. Circ 75 sx. 8-5/8" csg @4810' cmtd w/1625 sx Celloseal & 200 sx Class "C" + 2% CaCl3. Circ 100 sx. 7-7/8" OH Whipstocked @6991' Dr1g @8300' 20-1/4° E #5 plug 6991-7211' Class "H" + 0.05% CFR-2 + 5% sand, 1.00 yield, 17.5 ppg 7211 -7400' Class "H" w/20% SF-4 + 0.4% TF-4, 1.25 yield, 16.6 ppg #4 plug 8318'-7934' 100 sx Class "H" neat 1.18 yield, 15.6 ppg #3 plug 9532'-9148' 100 sx Class "H" neat 1.18 yield, 15.6 ppg #2 plug 10270'-9886' 100 sx Class "H" neat 1.18 yield, 15.6 ppg #1 plug 11381-10613' 200 sx Class "H" neat BEFORE EXAMINER NUTTER 1.18 yield, 15.6 ppg OIL CONSERVATION DIVISION Bass EXHIBIT NO. 2 11,428' TD

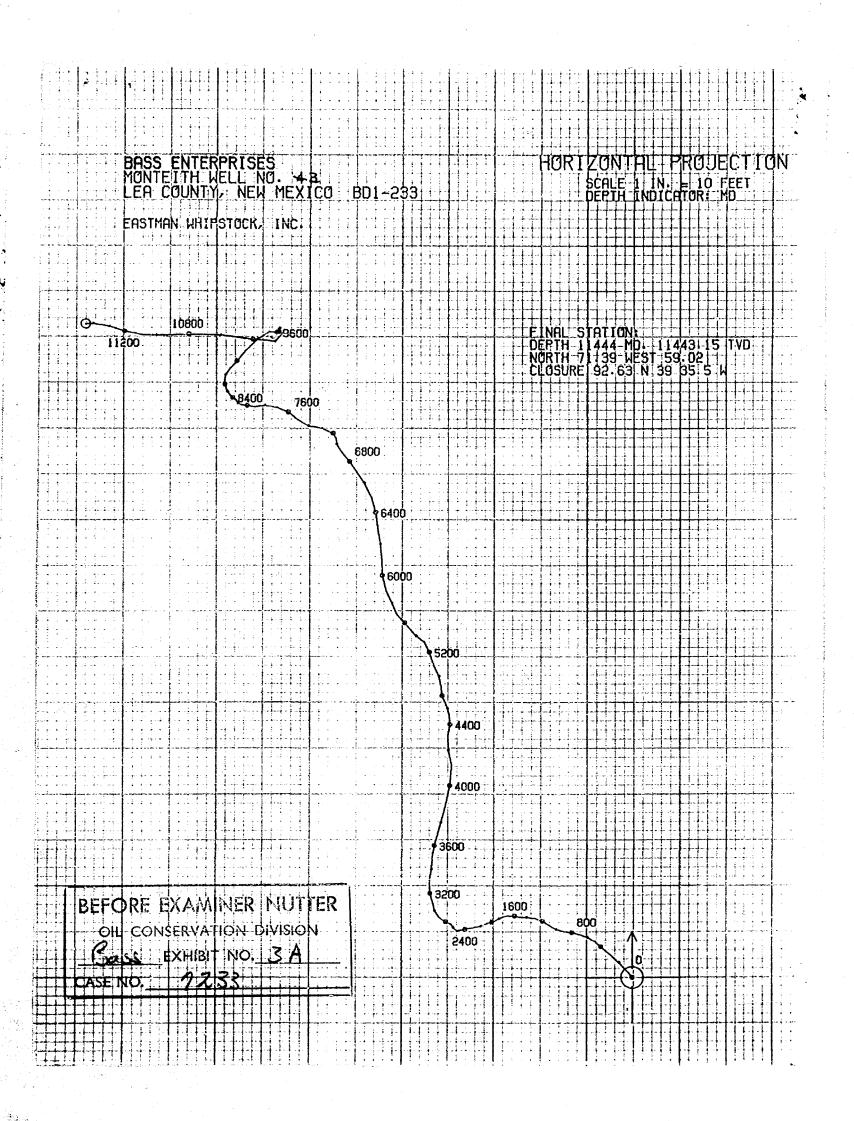
CASE NO. __ 723

MONTIETH B NO. 1
EXHIBIT NO. 3
INCREMENTAL ECONOMIC COMPARISON
DIRECTIONAL DRILL VS. NEW WELLBORE

NEW WELLBORE		DIRECTIONAL DRILL			
Rig up charges Projected Cost to TD	\$ 50,000	Projected addition	onal cost		
(prior to completion)	623,000	of directional we to completion)	11bore (prior \$300,000		
TOTAL	\$673,000		\$300,000		

Incremental savings of \$373,000 if directionally drilled.

BEFORE EXAMINER MUTTER
OIL CONSERVATION DIVISION
EXAMINER MUTTER
OIL CONSERVATION DIVISION
7233



RADIUS OF CURVATURE METHOD

BASS ENTERPRISES
MONTEITH WELL NO. 4
LEA COUNTY, NEW MEXICO BD1-233

COMPUTATION PAGE NO. 1
TIME DATE
01:12:31 00--00

							F-1			
			2.5	TRUE					- Commission of the second	
	MEASURED	DRIFT	DRIFT	VERTICAL	VERTICAL	RECTANO		CLO	SURE	DOG LEG
	DEPTH	ANGLE	DIRECTION	DEPTH	SECTION	COORDIA	IATES	DISTANCE	DIRECTION	SEVERITY
	FEET	M a	D	FEET	FEET	FEET		FEET	M C	DG/100FT
1 J. P.			•			•		_		
	0.	0 0	0	0.00	0.00	0.00	0.00	0.00	0 0	0.00
	100.	0 45	N 37 W	100.00	-0.39	0.52 N	0.39 W	0.65	N 37 O W	0.75
	200.	1 O	N 49 W	199,99	-1.43	1.64 N	1.43 W	2.17	N 41 12 W	
	300.	0 45	N 48 W	299.97	-2.58	2.65 N	2.58 W	3.69	N 44 12 W	0.25
	400.	0.30	N 49 W	399.97	43.39	3.37 N	3.39 W	4.78	N 45 11 W	0.25
		-				*				
	500.	0.30	N 46 W	499.96	-4.04	3.96 N	4.04 W	5,65	N 45 33 W	0,03
	600.	0.30	N 73 W	599.96	-4.78	4.40 N	4.78 W	6.50	N 47 23 W	0.23
, - 1. A	700.	0 30	N 68 W 🚉	3 699.96°		4.69 N	5.60 W	7.31	N 50 4 W	0.04
	800.	0.30	_N 83 W 🎇	799.9		70274.31 N	6.44 W	8.10	N 52 43 W	0.13
	900.	0.30	N 82 W 🔯	899 .95 8	Con Con Con II	1865.62 Name	7:31 W \	8.87	N 55 31 W	0.01
	en e		V	1	-8 (15)	THE STATE OF STATE OF	SALLAN EST			
	1000.	0 30	_ N 67 W 👻	222.24		[[[]]) \$,25(N)?	์ 6 . 15 พ	9.70	N 57 11 W	0.13
	1100.	0 30	N 54 W	1099:94		"0° 5:68°N "°	8.91°W	10.56	N 57 28 W	0.11
	1200.	0.30	N 65 M	1199.94	-9.65		¹⁹⁷⁰ 9.65 W	11.44	N 57 30 W	0.07
1 - A	1300.	0.30	N 77 W	1299.93	-10,46	6.45 N	10.46 W	12.29	N 58 21 W	0.13
	1400.	0 30	N 88 M	1399.93	-11.32	6.56 N	11.32 W	13.09	N 59 54 W	0.10
							3.5			
	1500.	0 15	N 86 W	1499.93	-11.98	6.60 N	11.98 W	13.68	N 61 2 W	0.25
	1600.	0.30	N 74 W	1599.93	-12.62	6.71 N	12.62 W	14.30	N 62 0 W	0.26
4.50	1700.	0 30	S 78 W	1699.92	-13.49	6.74 N	13.49 W	15.08	N 63 27 W	0.24
	1800.	0.30	S 58 W	1799.92	-14.29	6.42 N	14.29 W	15.67	N 65 49 W	0.17
	1900.	0 0	· O	1899,92	-14.66	6.18 N	14.66 W	15.91	N 67 8 W	0.50
The Tues Francisco										
	2000.	0.30	S 71 W	1999.92	-15.08	6.04 N	15.08 W	16.24	N 68 9 W	0.50
L.	2100.	0 15	S 69 W	2099.91	-15.69	5.82 N	15.69 W	16.74	N 69 39 W	0.25
	2200.	0.30	S 65 W	2199.91	-16.29	5.56 N	16.29 W	17.22	N 71 9 W	0.25
4. 1	2300.	0 30	N 87 W	2299.91	-17.14	5.40 N	17.14 W	17.27	N 72 31 W	0.24
	2400.	0 30	S 69 W	2399.90	-18.00	5.26 N	18.00 W	18.75	N 73 42 W	0.21
					•					
	2500.	0 30	S 85 W	2499,90	-18.85	5.07 N	18.85 W		N 74 57 W	0.14
	2600.	0 15	NOE	2599.90	-19.28	5.46 N	19:28 W	20.03	N 74 11 W	0.58
P Nati	2700.	0 15	N 67 W	2699.90	-19.50	5.80 N	19.50 W	20.35	N 73 26 W	0.28
<u> </u>	2800.	0.30	N 65 W	2722,82	-20.10	6.07 N	20.10 W	21.60	N_73_12 W	0.25
	2900,	0.30	N 48 W	2899.89	-20.83	6.55 N	20.83 W	21.83	N 72 33 W	0.15
ă,		,			•			i .		

BASS ENTERPRISES MONTEITH WELL NO. 4 LEA COUNTY, NEW MEXICO BD1-233 COMPUTATION PAGE NO. 2
TIME DATE
01:12:31 00--00

3.1				TRUE				£	* =
	MEASURED	DRIFT	DRIFT	VERTICAL	VERTICAL	RECTANG	ULAR	CALOSURE	DOG LEG
	DEPIH	ANGLE	DIRECTION	DEPTH	_SECTION	COURDIN	ATES	_DISTANCEDIRECTION	SEVERITY
	FEET	D M	D	FEET	FEET	FEET		FEET D M	DG/100FT
					and a second of the second of the second				
	3000.	0_30_	N 15 W	2999.89	21.28_	7.28 N	21.28 W	22.49_N_71_6_V	0.28
	3100.	0 30	N 15 W	3099.88	-21.50	8.13 N	21.50 W	22.99 N 69 18 V	0.00
a de la desta d La desta de la	3200.	0 45	N 16 W	3199.88	-21.79	9.18 N	21.79 W	23.65 N 67 10 V	0.25
	,3300	0_45_	_N 10 E	3299.87	-21.86	10.47_N	_21.86 W	24.24 N 64 24 V	0.34
	3400.	0 45	N 10 E	3399.86	-21.63	11.76 N	21.63 W	24.63 N 61 28 V	0.00
	3500.	0 45	N 2 W	3499.85		13.07_N	21.54 W	25.20 N 58 46 N	
	3600.	0 45	N 18 E	3599.84	-21.36	14.36 N	21.36 W	25.74 N 56 6 W	
	3700.	0 45	N 14 E	ৣ 3 699.5 3 ™	7 -21.00	15.61 N	21.00 W	26.17 N 53 22 W	
	3800.	0 45	_N 18 E [8]	3799.	20/46	16.87 N	-20.6A-W	26.66 N 50 A4 V	
	3900.	1 15	N 11 E	j 3899 .81	@@25g@36	8648.56 No.	20.20 W	3 27.44 N 47 26 W	V 0.51
				A.			alle kid		
<u> </u>	4000.	1 30	N 14 E 🤏	\$222.76	-191.65		19.62 W	28.71 N.43.17.1	
	4100.	1 0	N 4 W	4099.76	419.50°	"// 23:07 N	119.50 W	30.20 N 40 12 N	
	4200.	1 0	N 19 W	4199.74	-19,84	6.24777 N	19.84 W	31.74 N 38 42 V	
	4300.	0.45	N 14 E	4299.73	-19.91	26.27 N	19.91 W	32,97 N 37 9 V	
	4400.	0 45	N 7 E	4399.72	-19.67	27.56 N	19.67 W	33.84 N 35 31 b	0.09
						•			
	4500.	0 30	N 16 W	4499.71	-19.76	28.64 N	12.76 W	34.72 N 34 36 N	
	4600.	0 15	N 16 W	4599.71	-19.94	29.27 N	19.94 W	35.41 N 34 16 W	
	4700.	0 30	N 27 W	4699.71	-20.18	29.88 N	20.18 W	36.05 N 34 2 W	
	4800.	0 30	N 21 W	4799.71	-20.53	30.68 N	20.53 W	36.91 N 33 48 V	
	4900.	0 45	N 7 E	4899.70	-20.66	31.75 N	20.66 W	37.88 N 33 3 N	0.39
	5000.	0.30	N 28 W	4999.69	-20.86	32.80 N	20.86 W	38.87 N 32 27 V	
	5100.	1 0	N 24 W	5099.69	-21.43	33.98 N	21.43 W	40.17 N 32 14 W	
	5200.	0.45	N 13 W	5199.67	-21.91	35.42 N	21.91 W	41.65 N 31 45 W	
	5300.	0 45	N 41 W	5299.67	-22,50	36.58 N	22.50 W	42.95 N 31 36 W	and the second s
	5400.	0 30	N 67 W	5399.66	-23.38	37.21 N	23.38 W	43.95 N 32 8 V	0.37
		£4							
	5500.	0.30	N 15 W	5499.66	-23.93	37.85 N	23.93 W	44.78 N 32 18 P	
	5600.	0 45	N 66 W	5599.65	-24.61	38.65 N	24.61 W	45.82 N 32 29 L	
	5700.	0.45	N 23 W	5699.64	-25.51	39.56 N	25.51 W	47.07 N 32 49 t	
	5800.	0 45	N 23 W	5799.63	-26.02	40.77 N	26.02 W	48.37 N 32 33 W	e morte e e e e e e e e e e e e e e e e e e
3	5900,	1 0	N 27 W	5899.62	-26.67	42.15 N	26.67 W	- 49.88 N 32 i9 6	0.26

BASS ENTERPRISÉS

MONTEITH WELL NO. 4

LEA COUNTY, NEW MEXICO BD1-233

TRUE

COMPUTATION PAGE NO.

TIME DATE

O1:12:31 00--00

		- 145E - 111		INUE						
	MEASURED	DRIFT	DRIFT	VERTICAL	VERTICAL	RECTANO		CLO	SURE	DOG LEG
	DEPTH	ANGLE	DIRECTION	DEPTH	SECTION	COORDII	VATES	DISTANCE	DIRECTION	SEVERITY
	FEET	D M	D	FEET	FEET	FEET		FEET	M CI	DG/100FT
								_		v *
	6000.	1 0	N 2 W	5999.60	-27.10	43.83 N	27.10 W	51.53	N 31 44 W	0.43
	6100.	i O	N 2 W	6099.59	-27.16	45.57 N	27.16 W	53.05	N 30 48 W	0.00
	6200.	1 0	N 8 M	6199.57	-27.31	47.31 N	27.31 W	54.63	N 30 0 W	0.10
	6300.	1 0	N 12 W	6299.56	-27.62	49.03 N	27.62 W	56.27	N 29 24 W	0.07
	6400.	1 O	NЗW	6399.54	-27.84	50.76 N	27.84 W	57.89	N 28 45 W	0.16
					•					
	<i>6</i> 500.	1 O	N 28 W	6499.53	-28.31	52.42 N	28.31 W	59.58	N 28 22 W	0.43
	6600.	1 0	N 25 W	6599.51	-29.09	53.99 N	29.09 W	61.32	N 28 19 W	0.05
	6700.	0 45	N 44 W	ு 6699.5 9 ™		55,24 N	29.95 W	62.83	N 28 28 W	0.38
	6800.	0 45	_N 24 W	6799.4 9		79,555.32 N	30.67 W	64.13	N 28 35 W	0.26
	6900.	0 45	N 56 W	6899 .48	18 (18 18 18 18 18 18 18 18 18 18 18 18 18 1	1 1955, 61 Nax	31750(W)	65.40	N 28 48 W	0.41
				§ •		0 18 1860 000 000 000 20	ala hid			
	7000.	0.30	N 9 W 🥞	4992.48	-32.97	[[]] 16; 20(N)	ీక2.07 W√	66.45	N 28 52 W	0.55
	7100.	0 15	N 5 W	7079:48		~_~58.85~N ~	32.15 W	67.06	N 28 39 W	0.25
	7200.	0.30	N 52 W	7199.47	-32,46	- 169, 41 N 11	~32.46 W	67.70	N 23 39 W	0.38
	7300.	1 0	N 75 W	7299.47	-33.62	59.99 N	33.62 W	68.77	N 29 16 W	0.57
	7400.	0 45	N 85 W	7399.45	-35,12	° 60.26 N	35.12 W	69.74	N 30 14 W	0.29
				100	1.0					
	7500.	0 45	N 36 W	7499.44	-34.23	60.88 N	36.23 W	70,84	N 30 45 W	0.62
	7600.	0 45	N 67 W	7599.44	-37.24	61.69 N	37.24 W	72.05	N 31 7 W	0.40
	7700.	0 45	N 64 W	7699.43	-38,43	62.23 N	38.43 W	73.14	N 31 42 W	0.04
	7800.	0 45	S 83 W	7799.42	-39,70	62.44 N	39.70 W	74.00	N 32 27 W	0.43
	7900.	0.30	S 83 W	7899.41	-40.78	62.31 N	40.78 W	74.47	N 33 12 W	0.25
1						-				
	8000.	0.30	N 67 W	7999,41	-41.44	62.43 N	41.64 W	75.04	N 33 42 W	0.26
	8100.	0 15	S 84 W	8099.41	-42.28	62.53 N	42.28 W	75.48	N 34 4 W	0.31
1 :	8200.	0 15	N 38 W	8199.41	-42.67	.62.69 N	42.67 W	75,83	N 34 14 W	0.24
	8300.	0.15	N 27 W	8299,40	-42.90	. 63.06 N	42,20 W	76.27	N 34 14 W	0.05
	\$400.	0 15	N 78 W	8399.40	-43.23	63.31 N	43.23 W	76.67	N 34 20 W	0.22
\$ - \$ 									•	
	8500.	0 15	N 12 W	8429,40	-43.59	63.60 N	43.53 W	77.07	N 34 23 W	0.27
	8600.	0 15	N 56 W	8599.40	-43.76	63.96 N	43.76 W	77.50	N 34 23 W	0.19
	8700.	0 15	N ZE	8699,40	-43.75	64.33 N	43.95 W	77.91	N 34 21 W	0.24
	8800.	0.15	N 28 W	8799.40	-44.05	64.75 N	44.05 W	78,31	N 34 14 W	0,13
	8900.	0 15	N 12 E	8899.40	-44.11	65.17 N	44.11 W	78.70	N 34 5 W	0.17
		•						1		

BASS ENTERPRISES COMPUTATION PAGE NO. 4
MONTEITH WELL NO. 4
LEA COUNTY, NEW MEXICO BD1-233

COMPUTATION PAGE NO. 4
TIME DATE
O1:12:31 00--00

			= markan r= wight an are j	TRUE							
	MEASURED	DRIFT	DRIFT	VERTICAL	VERTICAL	RECTANO	BULAR	CLO	SURE	DOG LEG	
	DEPTH	ANGLE	DIRECTION	DEPTH	SECTION	COORDIN				SEVERITY	
	FEET	D M	D	FEET	FEET	FEET		FEET	DM	DG/100FT	
13.45	9000.	0_30	N 13 E	8999,40	-43,97	65.81 N	43.97 W		N 33 45 W	0.25	
	9100.	0.30	N 53 E	9099.39	-43.50	66.53 N	43.50 W	79.49	N 33 11 W	0.34	
* * * * * *	9200.	0.45	N 32 E	9199.39	-42,77	67.33 N	42.77 W	79.77	N 32 26 W	0.34	
	9300.	10_	N 50 E	9299.38	-41.77	68.48 N	41.77 W	80.21	N 31 23 W	0.37	are 11 11 4
	9400.	1 0	N 41 E	9399.36	-40,53	69.70 N	40.53 W	80,63	N 30 11 W	0.16	
					•			1			
	2500.	0.45	N_73_E	9499.35	-39.27	70.52 N	39.27_W	80.71	N 29 7 W	0.54	
	9600.	0 15	S 62 E	9599.34	a38.42	70.44 N	38.42 W	80.23	N 28 37 W	0.60	
÷ ; . *	9700.	0 15	N 7 W 🚉	:: 9699.3 4 **		70.64 N	38.13 W	80.27	N 28 22 W	0.44	
	<u> 2800.</u>	0 0	o /::	9799.37		70.85 N	39.15 W	80.47	N.28.18.W.	0.25	
	9900.	0 15	្ន 58 W	} 9899 .94 ™	(SIL)385.34 6	3%等6.今4 N	~ 38.34 W \	80.46	N 28 27 W	0.25	
				Å	- 10 Al 1112-s	ET HO. 45 ME	wild Bill	<i>i</i>	27		
<u> </u>	10000.	0 15	N 78 E 🍣	79999-34	338', 2 21		38.22 W		N 28 29 W	0.49	
	10100.	o 15	S 15 E	10077.34	237.89°	"§" 70.25°N ℃	~37\ 89~W~	79.81	N 28 20 W	0,34	
7.3	10200.	1 15	N 78 W	10199.33	-38.64	69.43 N	38.64 W	79.48	N 29 5 W	1.38	
	10300.	0 15	N 87 W	10299,32	-39.93	69.62 N	39.93 W	80.26	N 29 50 W	1.00	
	10400.	1 0	N 88 M	10399.31	-41.02	69.67 N	41.02 W	80.85	N 30 29 W	0.75	
					•						1
	10500.	1 0	N 76 W	10499,30	-42.75	62.21 N	42.Z5 H	81.25.	_N_31_27_N_	0.21	
· 14	10600.	1 O	N 87 W	10599.28	-44.47	70.17 N	44.47 W	83.08	N 32 22 W	0.19	
	10700.	1 O	N 87 W	10699.27	-46.22	70.26 N	46.22 W	84.10	N 33 20 W	0.00	
	10800.	1 0	S 87 W	10799.25	-47,96	70.26 N	47.96 W	85.07	N 34 19 W	0.10	
	10900.	1 0	′ ର ୫୨ [୍] ₩	10899.24	-49.70	70.20 N	49.70 W	86.02	N 35 18 W	0.03	
	11000.	1 0	S 88 W	10999.22	-51.45	70.16 N	51.45 W	87.00	N 36 15 W	0.02	
	11100.	1 O	N 83 M	11099.21	-53.19	70.23 N	53.19 W	88.10	N 37 8 W	0.16	
	11200.	1 0	N 75 W	11199.19	-54,90	70.57 N	54.90 W	89.41	N 37 53 W	0.14	
	11300.	1 0	N 68 W	11299.17	-56.56	71.12 N	56.56 W	20.87	N 38 30 W	0.12	
	11400.	1 0	S 88 W	11399.16	-58.26	71.42 N	58.26 W	92.17	N 39 12 W	0.42	
								- 1			
	11444.	1 0	<u> </u>	11443.15	~59.03	71.39 N	59.03 W	22.64	N 35 35 M	0,00	

FINAL CLOSURE - DIRECTION: DISTANCE:

N 39 DEGS 35 MINS W 92.64 FEET CASE____

NSP: SF Hobbs

Application of Bass Enterprises Production Co. for directional drilling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks authority to directionally drill its Montieth Well No. 3, the surface location of which is 2130 feet from the South line and 1980 feet from the East line of Section 13, Township 16 South, Range 36 East, Northeast Lovington-Pennsylvanian an Custer.

Pool, and directionally drill said well in such a manner as to bottom it within a 150 foot radius of a point 1980 feet from the South line and 660 feet from the East line of said Section 13, the N/2 SE/4 of the section to be dedicated to the well.

direction to bottom it within the N/2 SE/4 of Soid Section not closes than 510 feet to the North, South, East, or West Ines of said 80-acretrect.

LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY

1000 FIRST NATIONAL BANK TOWER POST OFFICE BOX 3580 MIDLAND, TEXAS 79702 (915) 683-4691

ROSWELL, NEW MEXICO OFFICE 600 HINKLE BUILDING (505) 622-6510

AMARILLO, TEXAS OFFICE 1701 AMERICAN NATIONAL BANK BUILDING (806) 372-5569

Case 7233

NOT LICENSED IN

W. E. BONDURANT, JR. (1914-1973) OF COUNSEL CLARENCE E. HINKLE' ROBERT A. STONE ROBERT A. STONE
LEWIS C. COX, CR.*
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.*
STUART D. SHANOR*
C. D. MARTIN
PAUL J. KELLY, JR.*
JAMES H. BOZARTH
DOUGLAS L. LUNSFORD*
PAUL H. BOHANNON
ERNEST R. FINNEY, JR.
J. DOUGLAS FOSTER
K. DOUGLAS PERRIN* J. DOUGLAS FOSTER
K. DOUGLAS PERRIN®
C. RAY ALLEN
T. CALDER EZZELL, JR.®
WILLIAM B. BURFORD
JOHN S. NELSON®
RICHARD E. OLSON®
ANGERSON CARTER, II
STEVEN O. ARNOLD
JEFFREY L. BOWMAN
JOHN C. HARRISON®

April 7, 1981

OIL CONSERVATION DIVISION SANTA FE

Mr. Dan Nutter Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Bass Enterprises Production Company Application for

April 22, 1981

I am transmitting herewith, executed in triplicate, copies of an Application for Bass Enterprises Production Company for approant to discretize the Montage Mo Dear Dan: val to directionally drill their Montieth No. 3 Well in the Northeast Lovington Penn Field.

It is our understanding that this matter has already been placed on the docket for April 22, 1981.

If any additional materials or information is required, please advise.

Very truly yours,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Conrad E. Coffield

CEC: rh Enclosures

Mr. David Davis Mr. Steve Rowland xc: xc:

BEFORE THE OIL CONSERVATION DIVISION DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES
PRODUCTION COMPANY FOR
DIRECTIONAL DRILLING, LEA
COUNTY. NEW MEXICO

Case 7233

APPLICATION FOR HEARING

COMES NOW the undersigned as attorneys on behalf of Bass Enterprises Production Company and files this written Application for Hearing to be set on the docket for April 22, 1981. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

- 1. Applicant seeks approval for the directional drilling of its Montieth No. 3 Well in the Northeast Lovington Penn Field, the surface location of which would be Unit J, 2,130 feet from the South line and 1,980 feet from the East line of Section 13, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, and then directionally drilled in an easterly direction to bottom said well in N\(\frac{1}{2}\)SE\(\frac{1}{2}\) of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.
- Approval of the directional drilling will be in the interest of conservation, prevention of waste and protection of correlative rights.
- 5. Applicant respectfully requests that this application be set on the April 22, 1981 Docket.

Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

By:

Conrad E. Coffield \\
Attorney for Bass Enterprises

BEFORE THE OIL CONSERVATION DIVISION DEPARTMENT OF ENERGY AND MINERALS STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES)
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COUNTY, NEW MEXICO	•

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Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Coffield Attorney for Bass Enterprises Production Company

BEFORE THE OIL CONSERVATION DIVISION DEPARTMENT OF ENERGY AND MINERALS STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES
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Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Attorney for Bass Enterprises

To Florene Davidson	Speed Lette	r. Lew Offices Hinkle, Cox, Eaton, Coffield & Her
Oil Conservation Division		P. O. BOX 3580 1000 FIRST NATIONAL BANK YOWER MIDLAND, TEXAS 79702
ubject Application for Directiona	l Drilling	
MESSAGE Pursuant to your telephone c	onference with	my secretary this afternoon
enclosed please find three c	opies of the Ra	ss Enterprises Production
Company Application for dire	ctional drillir	
	ctional drillir	
Company Application for dire	ctional drillir	
Company Application for dire	ctional drillir	g in Lea County, New Mexico, Signed Conrad E. Coffield
Company Application for dire	ctional drillir	g in Lea County, New Mexico, Signed Conrad E. Coffield
Company Application for dire	ctional drillir	g in Lea County, New Mexico, Signed Conrad E. Coffield

-No. 10 FOL

BEFORE THE OIL CONSERVATION DIVISION

DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES
PRODUCTION COMPANY FOR
DIRECTIONAL DRILLING, LEA
COUNTY, NEW MEXICO

APR 13 1981
OIL CONSTRVATION DIVISION SANTA FE
Case 7233

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- Approval of the directional drilling will be in the interest of conservation, prevention of waste and protection of correlative rights.
- 5. Applicant respectfully requests that this application be set on the April 22, 1981 Docket.

Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Conrad E. Coffield

Attorney for Bass Enterprises

BEFORE THE OIL CONSERVATION DIVISION DEPARTMENT OF ENERGY AND MINERALS STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES PRODUCTION COMPANY FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO

Case 7283

APPLICATION FOR HEARING

COMES NOW the undersigned as attorneys on behalf of Bass Enterprises Production Company and files this written Application for Hearing to be set on the docket for April 22, 1981. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

- 1. Applicant seeks approval for the directional drilling of its Montieth No. 3 Well in the Northeast Lovington Penn Field, the surface location of which would be Unit J, 2,130 feet from the South line and 1,980 feet from the East line of Section 13, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, and then directionally drilled in an easterly direction to bottom said well in N\(\frac{1}{2}\)SE\(\frac{1}{2}\) of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.
- Approval of the directional drilling will be in the interest of conservation, prevention of waste and protection of correlative rights.
- 5. Applicant respectfully requests that this application be set on the April 22, 1981 Docket.

Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

By: Mr.

Conrad E. Coffield

Attorney for Bass Enterprises

BEFORE THE OIL CONSERVATION DIVISION DEPARTMENT OF ENERGY AND MINERALS STATE OF NEW MEXICO

APPLICATION BY BASS ENTERPRISES PRODUCTION COMPANY FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO

Case 7233

APPLICATION FOR HEARING

COMES NOW the undersigned as attorneys on behalf of Bass Enterprises Production Company and files this written Application for Hearing to be set on the docket for April 22, 1981. In connection therewith, the undersigned, on behalf of Bass Enterprises Production Company, submits the following data:

- 1. Applicant seeks approval for the directional drilling of its Montieth No. 3 Well in the Northeast Lovington Penn Field, the surface location of which would be Unit J, 2,130 feet from the South line and 1,980 feet from the East line of Section 13, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, and then directionally drilled in an easterly direction to bottom said well in N\(^1\)SE\(^1\) of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.
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Dated this 6th day of April, 1981.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

By:

Conrad E. Coffield

Attorney for Bass Enterprises

4-2-81 Conrad Coffield Application of Bass Enterprises
Production Co Por directional seek to drill it Mon Fieth drilling No3 J 21305 1980 € 13-16-36 €

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rodius of a point 1980 \$ 660 € The N/2 SE/4 To be declicated to the well NE Lovington Pennsy Vanian Pool ROUGH dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

JAR

CASE NO	7233	
Order No.	R-66>5	

APPLICATION OF BASS ENTERPRISES PRODUCTION CO. FOR DIRECTIONAL DRILLING, LEA COUNTY, NEW MEXICO.

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ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 22

1981 , at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of April , 1981 , the

Division Director, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Bass Enterprises Production Co., Montieth "B" Well No. 1, formerly Known 45 Its seeks authority to directionally drill its Montieth Well No. 3, the surface location of which is 2130 feet from the South line and

Al R

1980 feet from the East line of Section 13, Township 16 South, Range 36 East, Northeast Lovington-Pennsylvanian Pool, and drill said well in an easterly direction to bottom it not closer than 510 feet to the outer boundary of the dedicated unit, being the N/2 SE/4 of said Section 13.

- (3) That the directional drilling of the above-described would be accomplished by plugging said Well back from its original total depth of 11,428 feet to a plugged back depth of 6491 feet, petting a whip-speck and then directionally drilling in an easterly direction, bottoming said well at an approximate depth of 11,500 within 150 feet of a point 150 feet out and 1300 feet east of the Surface I exation.
- (4) That the applicant should be required to determine the subsurface location of the bick off point on the well prior to directional drilling, and to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

IT IS THEREFORE ORDERED:

(1) That the applicant, Bass Enterprises Production Co., is hereby authorized to directionally drill its Montieth Well No. 2, the surface location of which is 2130 feet from the South line and 1980 feet from the East line of Section 13, Township 16 South, Range 36 East, Northeast Lovington-Pennsylvanian Pool, and drill said well in an easterly direction to bottom it not closer than 510 feet to the outer boundary of the dedicated unit, being the N/2 SE/4 of said Section 13.

well, the operator shall determine the subsurface location of the kick-off point; and

PROVIDED Former, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

- (2) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (3) 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 the day and year hereinabove designated.