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

Co.

CASE NO.

2233

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 Production Company for directional drilling, Lea County, New Mexico.

CASE 7233

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

I N D E X

E X H I B I T S

MR. NUTTER: We'll call next Case Number 7233.

MR. PADILLA: Application of Bass Enterprises Production Company for directional drilling, Lea County, New Mexico.

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.

(Witness sworn.)

ERIC LONG

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. COFFIELD:

MR. COFFIELD: Mr. Examiner, before we begin Mr. Long's testimony, I would like to point out that the advertisement for this particular case and the way it is set out here in the docket describes the well as the -- the subject well as the Montieth No. 3.

Actually, that well -- name has now been changed and it is called the Montieth "B" No. 1, and

throughout Mr. Long's testimony he'll be referring to the well as such.

MR. NUTTER: Okay, the location and everything are correct, however?

MR. COFFIELD: Yes.

MR. NUTTER: Go ahead.

Q. Mr. Long, would you please state your name, address, occupation, and employer?

A. Yes. My name is Eric Long. I'm employed by Bass Enterprises Production Company in Midland, Texas, as a petroleum engineer.

Q. Are you familiar with Bass' application in this case?

A. Yes, sir, I am.

Q. Are you familiar with the property and the proposed directionally drilled well involved here?

A. Yes, sir, I am.

Q. Have you previously testified before the Division as a petroleum engineer?

A. No, I have not previously testified.

Q. Would you please give a brief resume for the Examiner of your educational background and work experience?

A. I'm a graduate of Texas A & M University

and hold a BS degree in petroleum engineering.

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?

A. Bass Enterprises Production Company seeks 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.

A. Yes, sir. Exhibit One is a map of the

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.

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

A. 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.

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

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?

A. 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.

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

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.

Q. Okay, finally would you go now to Exhibits Four and Four-A and explain those exhibits to the Examiner?

A. Exhibit Four is a proposed directional drilling plan. Shown is the kickoff point at 6991, the 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 cross section A-A', or what I have indicated as A-A' on there. That currently shows the location of our directional well, according to the recent surveys.

MR. NUTTER: A would be the point at which you kicked off.

A. Yes, sir.

MR. NUTTER: Which was northwest of the surface location.

A. That is correct.

MR. NUTTER: And now you have come back to A' --

A. Yes, sir.

MR. NUTTER: -- as of now?

A. As of about two days ago. I didn't have this morning's directional report.

MR. NUTTER: So you're heading for your target area at this --

A. Hearing for the target area at this time.

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.

Field rules call for (a) 80-acre proration 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?

A. Drilling the subject well in a directional 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.

Q. Mr. Long, were these Exhibits One through Four-A prepared by you or under your supervision?

A. Yes, they were.

MR. COFFIELD: Mr. Examiner, I move the admission of Exhibits One through Four-A.

MR. NUTTER: Exhibits One through Four-A will be admitted in evidence.

MR. COFFIELD: And I have nothing further.

MR. NUTTER: Are there any questions of Mr. Long? He may be excused.

Do you have anything further, Mr. Coffield?

MR. COFFIELD: No, sir, I do not.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7233?

We'll take the case under advisement.

(Hearing concluded.)

C E R T I F I C A T E

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

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7253, heard by me on 4/22 19 81.

, Examiner
Oil Conservation Division

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

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TRANSCRIPT OF HEARING

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A. Yes. My name is Eric Long. I'm employed by Bass Enterprises Production Company in Midland, Texas, as a petroleum engineer.

Q. Are you familiar with Bass' application in this case?

A. Yes, sir, I am.

Q. Are you familiar with the property and the proposed directionally drilled well involved here?

A. Yes, sir, I am.

Q. Have you previously testified before the Division as a petroleum engineer?

A. No, I have not previously testified.

Q. Would you please give a brief resume for the Examiner of your educational background and work experience?

A. I'm a graduate of Texas A & M University

and hold a BS degree in petroleum engineering.

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

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Q Mr. Long, were these Exhibits One through Four-A prepared by you or under your supervision?

A Yes, they were.

MR. COFFIELD: Mr. Examiner, I move the admission of Exhibits One through Four-A.

MR. NUTTER: Exhibits One through Four-A will be admitted in evidence.

MR. COFFIELD: And I have nothing further.

MR. NUTTER: Are there any questions of Mr. Long? He may be excused.

Do you have anything further, Mr. Coffield?

MR. COFFIELD: No, sir, I do not.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7233?

We'll take the case under advisement.

(Hearing concluded.)

C E R T I F I C A T E

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 record of the proceedings in the Examiner hearing of Case No. 7233, heard by me on 4/22, 1981.

_____, Examiner
Oil Conservation Division

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

May 1, 1981

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

Re: CASE NO. 7233
ORDER NO. R-6675

Applicant:

Bass Enterprises Production Co.

Mr. Conrad E. Coffield
Hinkle, Cox, Eaton, Coffield
& Hensley
Attorneys at Law
P. O. Box 3580
Midland, Texas 79702

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

Other

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:

CASE NO. 7233
Order No. R-6675

APPLICATION OF BASS ENTERPRISES
PRODUCTION CO. FOR DIRECTIONAL
DRILLING, 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, Bass Enterprises Production Co., seeks authority to directionally drill its Montieth "B" Well No. 1, formerly known as 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.

(3) That the directional drilling of the above-described well would be accomplished by plugging said well back from its original 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.

(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, Gass Enterprises Production Co., is 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, 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.

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 hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Director

S E
fd/

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 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 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 Mesaverde 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.

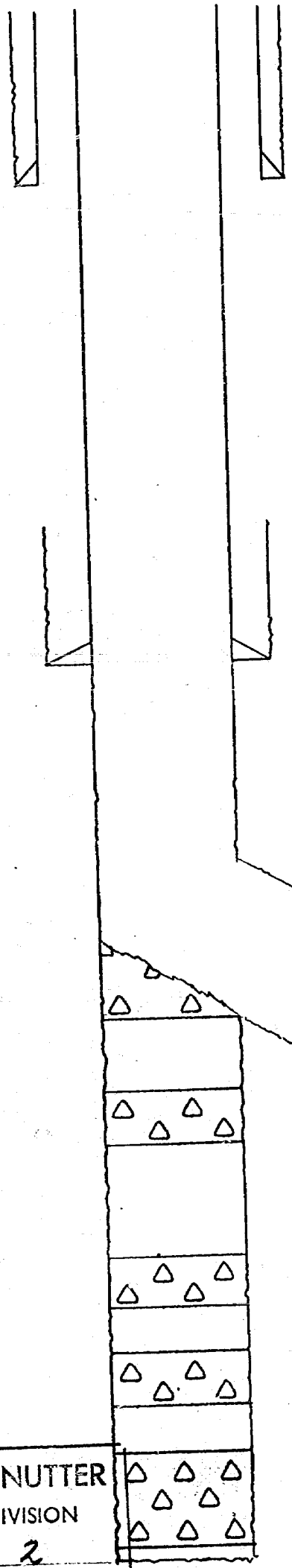
CASE 7233: Application of Bass Enterprises Production Co. for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Montieth Well No. 3, the surface location of which is 2130 feet from the South line and 1980 feet from the East 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 Oil 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.

EXHIBIT NO. 2
STATUS AS OF 6 A.M.
4/21/81

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 + 1/4#/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% $CaCl_3$. Circ 100 sx.

7-7/8" OH

Whipstocked @6991'

Drlg @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 1.18 yield, 15.6 ppg

11,428' TD

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Bass EXHIBIT NO. 2
CASE NO. 7233

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

NEW WELLBORE		DIRECTIONAL DRILL	
Rig up charges	$ 50,000	Projected additional cost of directional wellbore (prior to completion)	$300,000
Projected Cost to TD (prior to completion)	623,000		
TOTAL	$673,000		$300,000

Incremental savings of $373,000 if directionally drilled.

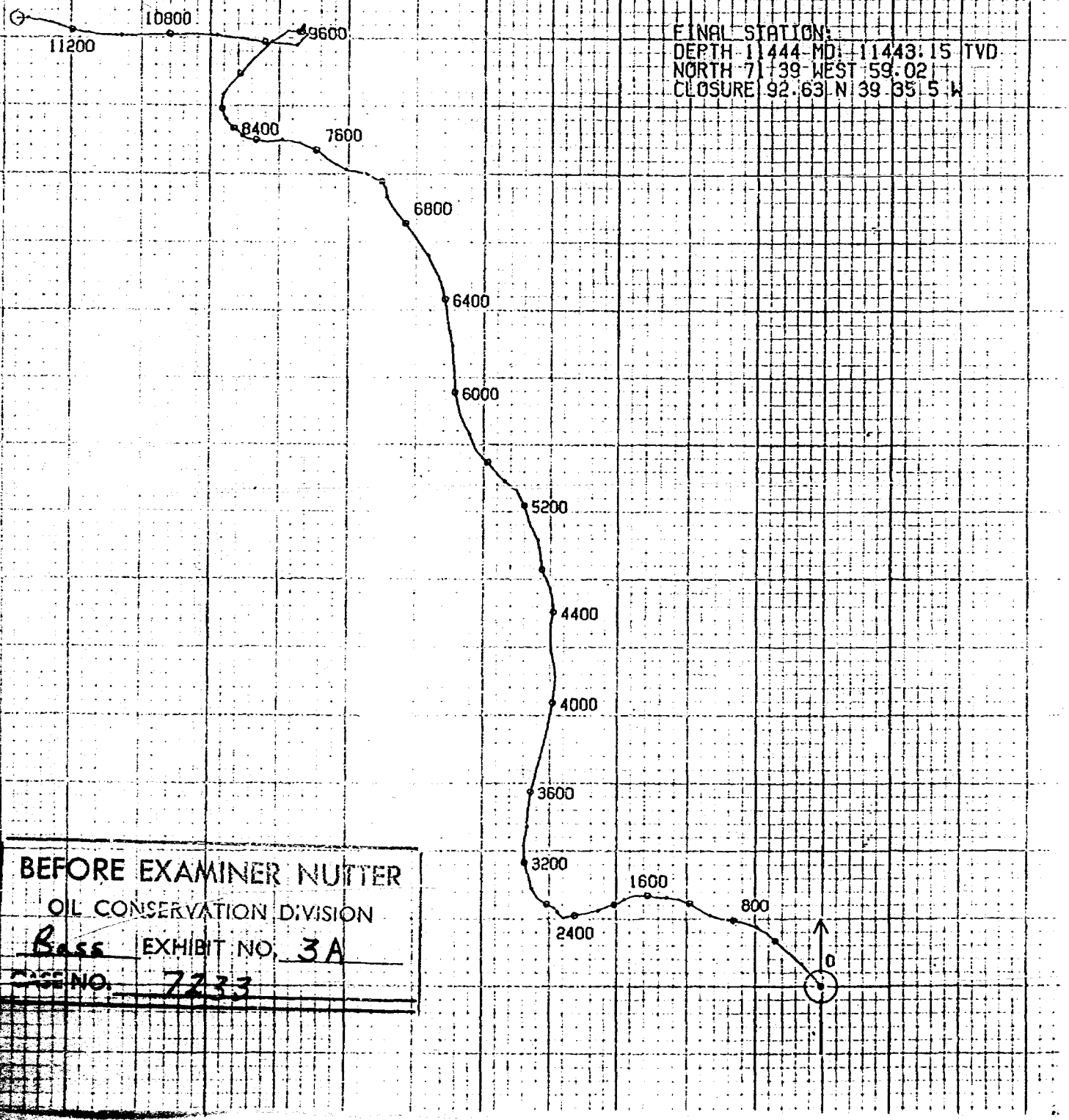
BASS ENTERPRISES
MONTEITH WELL NO. 4-B
LEA COUNTY, NEW MEXICO BD1-233

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION

SCALE-1 IN. = 10 FEET
DEPTH INDICATOR: MD

FINAL STATION:
DEPTH 11444 MD 11443.15 TVD
NORTH 71 39 WEST 59.02
CLOSURE 92.63 N 39 35 5 W



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

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

EASTMAN WHIPSTOCK, INC.
GYROSCOPIC MULTISHOT SURVEY WT481-G0221
SURVEYOR: TIM STEPHENS (0'-4800')
MAGNETIC MULTISHOT SURVEY WT481-S0222
SURVEYOR: TIM STEPHENS (4800'-11444')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 90 DEG. 0 MIN. E

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

BASS ENTERPRISES — COMPUTATION — PAGE NO. 1

MONTEITH WELL NO. 4 — TIME 01:12:31 — DATE 00--00

LEA COUNTY, NEW MEXICO BD1-233

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
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 0 W	0.75
200.	1 0	N 49 W	199.99	-1.43	1.64 N	1.43 W	2.17	N 41 12 W	0.31
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	-3.39	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
700.	0 30	N 68 W	699.96	-5.60	4.69 N	5.60 W	7.31	N 50 4 W	0.04
800.	0 30	N 83 W	799.95	-6.44	4.91 N	6.44 W	8.10	N 52 43 W	0.13
900.	0 30	N 82 W	899.95	-7.31	5.02 N	7.31 W	8.87	N 55 31 W	0.01
1000.	0 30	N 67 W	999.94	-8.15	5.25 N	8.15 W	9.70	N 57 11 W	0.13
1100.	0 30	N 54 W	1099.94	-8.91	5.68 N	8.91 W	10.56	N 57 28 W	0.11
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	6.56 N	11.32 W	13.09	N 59 54 W	0.10
1500.	0 15	N 86 W	1499.93	-11.98	6.60 N	11.98 W	13.68	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 0 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	N 65 49 W	0.17
1900.	0 0	0	1899.92	-14.66	6.18 N	14.66 W	15.91	N 67 8 W	0.50
2000.	0 30	S 71 W	1999.92	-15.08	6.04 N	15.08 W	16.24	N 68 9 W	0.50
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
2300.	0 30	N 87 W	2299.91	-17.14	5.40 N	17.14 W	17.97	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	19.52	N 74 57 W	0.14
2600.	0 15	N 0 E	2599.90	-19.28	5.46 N	19.28 W	20.03	N 74 11 W	0.58
2700.	0 15	N 67 W	2699.90	-19.50	5.80 N	19.50 W	20.35	N 73 26 W	0.28
2800.	0 30	N 65 W	2799.89	-20.10	6.07 N	20.10 W	21.00	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

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

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
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
3500.	0 45	N 2 W	3499.85	-21.54	13.07 N	21.54 W	25.20	N 58 46 W	0.16
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	3699.83	-21.00	15.61 N	21.00 W	26.17	N 53 22 W	0.05
3800.	0 45	N 18 E	3799.82	-20.64	16.87 N	20.64 W	26.66	N 50 44 W	0.05
3900.	1 15	N 11 E	3899.81	-20.20	18.56 N	20.20 W	27.44	N 47 26 W	0.51
4000.	1 30	N 14 E	3999.78	-19.69	20.90 N	19.69 W	28.71	N 43 17 W	0.26
4100.	1 0	N 4 W	4099.76	-19.50	23.07 N	19.50 W	30.20	N 40 12 W	0.63
4200.	1 0	N 19 W	4199.74	-19.84	24.77 N	19.84 W	31.74	N 38 42 W	0.26
4300.	0 45	N 14 E	4299.73	-19.91	26.27 N	19.91 W	32.97	N 37 9 W	0.55
4400.	0 45	N 7 E	4399.72	-19.67	27.86 N	19.67 W	33.86	N 35 31 W	0.07
4500.	0 30	N 16 W	4499.71	-19.76	29.64 N	19.76 W	34.79	N 34 36 W	0.33
4600.	0 15	N 16 W	4599.71	-19.94	29.27 N	19.94 W	35.41	N 34 16 W	0.25
4700.	0 30	N 27 W	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
5000.	0 30	N 28 W	4999.69	-20.86	32.80 N	20.86 W	38.87	N 32 27 W	0.45
5100.	1 0	N 24 W	5099.69	-21.43	33.98 N	21.43 W	40.17	N 32 14 W	0.50
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 W	0.36
5400.	0 30	N 67 W	5399.66	-23.38	37.21 N	23.38 W	43.95	N 32 9 W	0.37
5500.	0 30	N 15 W	5499.66	-23.93	37.85 N	23.93 W	44.78	N 32 18 W	0.44
5600.	0 45	N 66 W	5599.65	-24.61	38.65 N	24.61 W	45.82	N 32 29 W	0.58
5700.	0 45	N 23 W	5699.64	-25.51	39.56 N	25.51 W	47.07	N 32 49 W	0.55
5800.	0 45	N 23 W	5799.63	-26.02	40.77 N	26.02 W	48.37	N 32 33 W	0.00
5900.	1 0	N 27 W	5899.62	-26.67	42.15 N	26.67 W	49.88	N 32 19 W	0.26

BASS ENTERPRISES — COMPUTATION — PAGE NO. 3
MONTEITH WELL NO. 4
LEA COUNTY, NEW MEXICO BD1-233 — TIME 01:12:31 — DATE 00--00

MEASURED DEPTH FEET	DRIFT ANGLE D	M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D	M	DOG LEG SEVERITY DG/100FT
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.	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	0	N 8 W	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	0	N 3 W	6399.54	-27.84	50.76 N	27.84 W	57.89	N 28	45 W	0.16
6500.	1	0	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	6699.50	-29.95	55.24 N	29.95 W	62.83	N 28	28 W	0.38
6800.	0	45	N 24 W	6799.49	-30.67	56.32 N	30.67 W	64.13	N 28	35 W	0.26
6900.	0	45	N 56 W	6899.48	-31.50	57.31 N	31.50 W	65.40	N 28	48 W	0.41
7000.	0	30	N 9 W	6999.48	-32.07	58.20 N	32.07 W	66.45	N 28	52 W	0.55
7100.	0	15	N 5 W	7099.48	-32.15	58.85 N	32.15 W	67.06	N 28	39 W	0.25
7200.	0	30	N 52 W	7199.47	-32.46	59.41 N	32.46 W	67.70	N 28	39 W	0.38
7300.	1	0	N 75 W	7299.47	-33.62	59.97 N	33.62 W	68.77	N 29	16 W	0.97
7400.	0	45	N 85 W	7399.45	-34.11	60.44 N	34.12 W	69.71	N 29	11 W	0.29
7500.	0	45	N 36 W	7499.44	-34.23	60.88 N	34.23 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	72.03	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
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	62.58 N	42.28 W	75.48	N 34	4 W	0.31
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	42.90 W	76.27	N 34	14 W	0.05
8400.	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	8499.40	-43.53	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 2 E	8699.40	-43.95	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

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

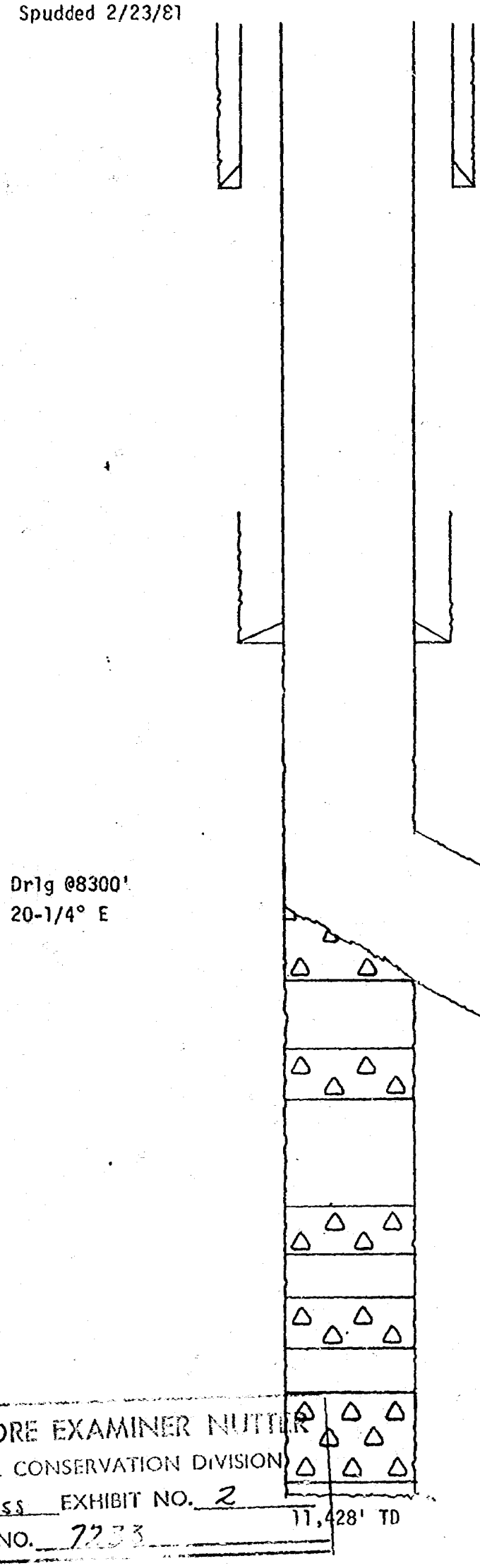
MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
9000.	0 30	N 13 E	8999.40	-43.97	65.81 N	43.97 W	79.15	N 33 45 W	0.25
9100.	0 30	N 53 E	9099.39	-43.50	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.	1 0	N 50 E	9299.38	-41.77	68.48 N	41.77 W	80.21	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
9500.	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	-38.42	70.44 N	38.42 W	80.23	N 28 37 W	0.60
9700.	0 15	N 7 W	9699.34	-38.13	70.64 N	38.13 W	80.27	N 28 22 W	0.44
9800.	0 0	0	9799.34	-38.15	70.85 N	38.15 W	80.47	N 28 18 W	0.25
9900.	0 15	S 58 W	9899.34	-38.34	70.74 N	38.34 W	80.46	N 28 27 W	0.25
10000.	0 15	N 78 E	9999.34	-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	38.64 W	79.48	N 29 3 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 W	10399.31	-41.02	69.67 N	41.02 W	80.85	N 30 29 W	0.75
10500.	1 0	N 76 W	10499.30	-42.75	69.91 N	42.75 W	81.95	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 32 22 W	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.	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	S 89 W	10899.24	-49.70	70.20 N	49.70 W	86.02	N 35 16 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 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 W	90.87	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
11444.	1 0	S 88 W	11443.15	-59.03	71.39 N	59.03 W	92.64	N 39 35 W	0.00

FINAL CLOSURE - DIRECTION: N 39 DEGS 35 MINS W
DISTANCE: 92.64 FEET

MONTIETH B No. 1
EXHIBIT NO. 2
STATUS AS OF 6 A.M.
4/21/81

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 + 1/4#/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% $CaCl_3$. Circ 100 sx.

7-7/8" OH

Whipstocked @6991'

Drlg @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 1.18 yield, 15.6 ppg

11,428' TD

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Bass EXHIBIT NO. 2
CASE NO. 7233

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

NEW WELLBORE		DIRECTIONAL DRILL	
Rig up charges	$ 50,000	Projected additional cost of directional wellbore (prior to completion)	$300,000
Projected Cost to TD (prior to completion)	623,000		
TOTAL	$673,000		$300,000

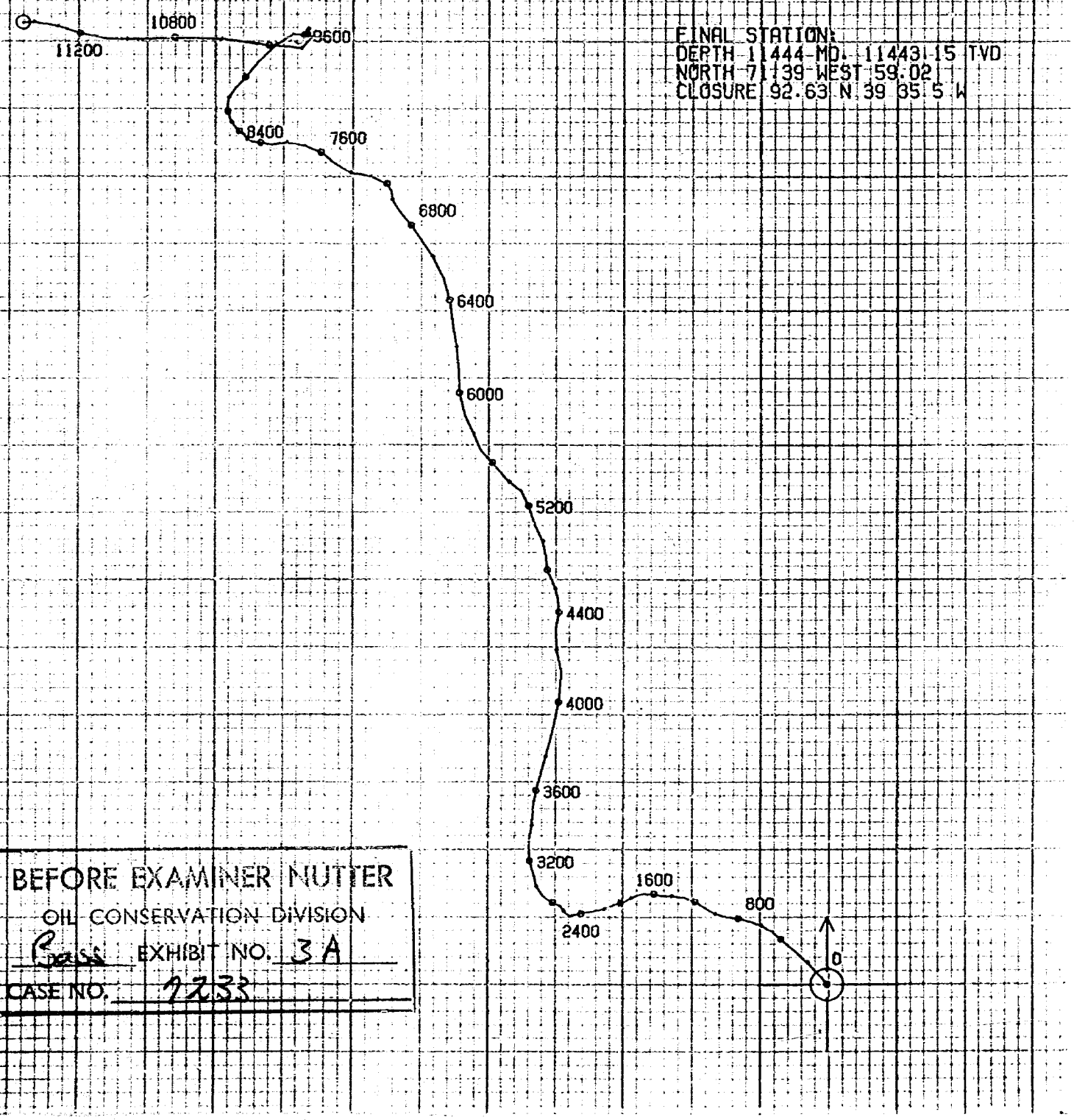
Incremental savings of $373,000 if directionally drilled.

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

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION

SCALE 1 IN. = 10 FEET
DEPTH INDICATOR: MD



FINAL STATION:
DEPTH 11444 MD, 11443.15 TVD
NORTH 71.39 WEST 59.02
CLOSURE 92.63 N 39 35 5 W

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Bass EXHIBIT NO. 3A
CASE NO. 9233

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

EASTMAN WHIPSTOCK, INC.
GYROSCOPIC MULTISHOT SURVEY WT481-G0221
SURVEYOR: TIM STEPHENS (0'-4800')
MAGNETIC MULTISHOT SURVEY WT481-S0222
SURVEYOR: TIM STEPHENS (4800'-11444')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 90 DEG. 0 MIN. E

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

BASS ENTERPRISES — COMPUTATION — PAGE NO. 1
MONTEITH WELL NO. 4 — TIME 01:12:31 — DATE 00--00
LEA COUNTY, NEW MEXICO BD1-233

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
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 0 W	0.75
200.	1 0	N 49 W	199.99	-1.43	1.64 N	1.43 W	2.17	N 41 12 W	0.31
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	-3.39	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
700.	0 30	N 68 W	699.96	-5.60	4.69 N	5.60 W	7.31	N 50 4 W	0.04
800.	0 30	N 83 W	799.95	-6.44	4.91 N	6.44 W	8.10	N 52 43 W	0.13
900.	0 30	N 82 W	899.95	-7.31	5.02 N	7.31 W	8.87	N 55 31 W	0.01
1000.	0 30	N 67 W	999.94	-8.15	5.25 N	8.15 W	9.70	N 57 11 W	0.13
1100.	0 30	N 54 W	1099.94	-8.91	5.68 N	8.91 W	10.56	N 57 28 W	0.11
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	6.56 N	11.32 W	13.09	N 59 54 W	0.10
1500.	0 15	N 86 W	1499.93	-11.98	6.60 N	11.98 W	13.68	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 0 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	N 65 49 W	0.17
1900.	0 0	0	1899.92	-14.66	6.18 N	14.66 W	15.91	N 67 8 W	0.50
2000.	0 30	S 71 W	1999.92	-15.08	6.04 N	15.08 W	16.24	N 68 9 W	0.50
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
2300.	0 30	N 87 W	2299.91	-17.14	5.40 N	17.14 W	17.97	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	19.52	N 74 57 W	0.14
2600.	0 15	N 0 E	2599.90	-19.28	5.46 N	19.28 W	20.03	N 74 11 W	0.58
2700.	0 15	N 67 W	2699.90	-19.50	5.80 N	19.50 W	20.35	N 73 26 W	0.28
2800.	0 30	N 65 W	2799.89	-20.10	6.07 N	20.10 W	21.00	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

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
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
3500.	0 45	N 2 W	3499.85	-21.54	13.07 N 21.54 W	25.20	N 58 46 W	0.16
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	3699.83	-21.00	15.61 N 21.00 W	26.17	N 53 22 W	0.05
3800.	0 45	N 18 E	3799.82	-20.44	16.87 N 20.64 W	26.66	N 50 44 W	0.05
3900.	1 15	N 11 E	3899.81	-20.20	18.56 N 20.20 W	27.44	N 47 26 W	0.51
4000.	1 30	N 14 E	3999.78	-19.69	20.90 N 19.69 W	28.71	N 43 17 W	0.26
4100.	1 0	N 4 W	4099.76	-19.50	23.07 N 19.50 W	30.20	N 40 12 W	0.63
4200.	1 0	N 19 W	4199.74	-19.84	24.77 N 19.84 W	31.74	N 38 42 W	0.26
4300.	0 45	N 14 E	4299.73	-19.91	26.27 N 19.91 W	32.97	N 37 9 W	0.55
4400.	0 45	N 7 E	4399.72	-19.67	27.56 N 19.67 W	33.86	N 35 31 W	0.09
4500.	0 30	N 16 W	4499.71	-19.76	28.64 N 19.76 W	34.79	N 34 36 W	0.35
4600.	0 15	N 16 W	4599.71	-19.94	29.27 N 19.94 W	35.41	N 34 16 W	0.25
4700.	0 30	N 27 W	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
5000.	0 30	N 28 W	4999.69	-20.86	32.80 N 20.86 W	38.87	N 32 27 W	0.45
5100.	1 0	N 24 W	5099.69	-21.43	33.98 N 21.43 W	40.17	N 32 14 W	0.50
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 W	0.36
5400.	0 30	N 67 W	5399.66	-23.38	37.21 N 23.38 W	43.95	N 32 8 W	0.37
5500.	0 30	N 15 W	5499.66	-23.93	37.85 N 23.93 W	44.78	N 32 18 W	0.44
5600.	0 45	N 66 W	5599.65	-24.61	38.65 N 24.61 W	45.82	N 32 29 W	0.58
5700.	0 45	N 23 W	5699.64	-25.51	39.56 N 25.51 W	47.07	N 32 49 W	0.55
5800.	0 45	N 23 W	5799.63	-26.02	40.77 N 26.02 W	48.37	N 32 33 W	0.00
5900.	1 0	N 27 W	5899.62	-26.67	42.15 N 26.67 W	49.88	N 32 19 W	0.26

BASS ENTERPRISES — COMPUTATION — PAGE NO. 3
MONTEITH WELL NO. 4
LEA COUNTY, NEW MEXICO BD1-233 — TIME 01:12:31 DATE 00--00

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
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.	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 0	N 8 W	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 0	N 3 W	6399.54	-27.84	50.76 N 27.84 W	57.89	N 28 45 W	0.16
6500.	1 0	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	6699.50	-29.95	55.24 N 29.95 W	62.83	N 28 28 W	0.38
6800.	0 45	N 24 W	6799.49	-30.67	56.32 N 30.67 W	64.13	N 28 35 W	0.24
6900.	0 45	N 56 W	6899.48	-31.50	57.31 N 31.50 W	65.40	N 28 48 W	0.41
7000.	0 30	N 9 W	6999.48	-32.07	58.20 N 32.07 W	66.45	N 28 52 W	0.55
7100.	0 15	N 5 W	7099.48	-32.15	58.85 N 32.15 W	67.06	N 28 39 W	0.25
7200.	0 30	N 52 W	7199.47	-32.46	59.41 N 32.46 W	67.70	N 28 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
7500.	0 45	N 36 W	7499.44	-36.23	60.68 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
8000.	0 30	N 67 W	7999.41	-41.64	62.43 N 41.64 W	75.04	N 33 42 W	0.24
8100.	0 15	S 84 W	8099.41	-42.28	62.53 N 42.28 W	75.48	N 34 4 W	0.31
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 42.90 W	76.27	N 34 14 W	0.05
8400.	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	8499.40	-43.53	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 2 E	8699.40	-43.95	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

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

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		CLOSURE DISTANCE FEET	CLOSURE DIRECTION D M	DOG LEG SEVERITY DG/100FT
9000.	0 30	N 13 E	8999.40	-43.97	65.81 N	43.97 W	79.15	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.	1 0	N 50 E	9299.38	-41.77	68.48 N	41.77 W	80.21	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
9500.	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	-38.42	70.44 N	38.42 W	80.23	N 28 37 W	0.60
9700.	0 15	N 7 W	9699.34	-38.13	70.64 N	38.13 W	80.27	N 28 22 W	0.44
9800.	0 0	0	9799.34	-38.15	70.85 N	38.15 W	80.47	N 28 18 W	0.25
9900.	0 15	S 58 W	9899.34	-38.34	70.74 N	38.34 W	80.46	N 28 27 W	0.25
10000.	0 15	N 78 E	9999.34	-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	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 W	10399.31	-41.02	69.67 N	41.02 W	80.85	N 30 29 W	0.75
10500.	1 0	N 76 W	10499.30	-42.75	69.91 N	42.75 W	81.95	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 32 22 W	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.	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	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	87.00	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 W	90.87	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
11444.	1 0	S 88 W	11443.15	-59.03	71.39 N	59.03 W	92.64	N 39 35 W	0.00

FINAL CLOSURE - DIRECTION: N 39 DEGS 35 MINS W
DISTANCE: 92.64 FEET

April 22, 1981

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 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 tothe well.

an Easterly direction to bottom it within the N/2 SE/4 of said Section not closer than 510 feet to the North, South, East, or West lines of said 80-acre tract.

Case 7233

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

*NOT LICENSED IN TEXAS

W. E. BONDURANT, JR.
(1914-1973)
OF COUNSEL
CLARENCE E. HINKLE*
ROBERT A. STONE
LEWIS C. COX, JR.*
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 M. BOHANNON
ERNEST R. FINNEY, JR.
J. DOUGLAS FOSTER
K. DOUGLAS PERRIN*
C. RAY ALLEN
T. CALDER EZZELL, JR.*
WILLIAM B. BURFORD
JOHN S. NELSON*
RICHARD E. OLSON*
ANDERSON CARTER, II
STEVEN D. ARNOLD
JEFFREY L. BOWMAN
JOHN C. HARRISON*

April 7, 1981

RECEIVED
APR 13 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

Dear Dan:

I am transmitting herewith, executed in triplicate, copies of an Application for Bass Enterprises Production Company for approval 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

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

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 N½SE¼ of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.

2. 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
Production Company

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

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2. 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
Production Company

BEFORE THE OIL CONSERVATION DIVISION

DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

Case 7233

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

APPLICATION FOR HEARING

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2. 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
Production Company

Speed Letter. 44-902 GrayLine SNAP-A-WAY FORM

Speed Letter.

To Florene Davidson

Oil Conservation Division

From **Hinkle, Cox, Eaton, Coffield & Hensley**

Law Offices

P. O. BOX 3580

1000 FIRST NATIONAL BANK TOWER

MIDLAND, TEXAS 79702

Subject Application for Directional Drilling

—No. 9 & 10 FOLD

MESSAGE

Pursuant to your telephone conference with my secretary this afternoon enclosed please find three copies of the Bass Enterprises Production Company Application for directional drilling in Lea County, New Mexico, which is set on the docket for April 22.

Date 4/10/81 Signed Conrad E. Coffield

REPLY

RECEIVED
APR 13 1981
OIL CONSERVATION DIVISION
SANTA FE

—No. 9 FOLD

—No. 10 FOLD

BEFORE THE OIL CONSERVATION DIVISION

DEPARTMENT OF ENERGY AND MINERALS

STATE OF NEW MEXICO

Case 7233

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

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 N½SE¼ of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.

2. 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
Conrad E. 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)
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 N½SE¼ of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.

2. 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
Conrad E. 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)
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 N½SE¼ of said Section not closer than 510 feet to the North, South, East or West lines of said 80 acre tract.

2. 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

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Attorney for Bass Enterprises
Production Company

Conrad Coffield 4-2-81

Application of Bass Enterprises
Production Co for Directional
Drilling

seek to drill it Montieth
No 3 J 2130S 1980E E 13-16S-36E
to bottom hole within 150 foot
radius of a point 1980S 660E
the N/2SE/4 To be dedicated to the well
NE Lovington Pennsylvanian 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:

CASE NO. 7233

Order No. R-6675

APPLICATION OF BASS ENTERPRISES
PRODUCTION CO. FOR DIRECTIONAL
DRILLING, 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 _____ 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., seeks authority to directionally drill its Montieth Well No. 3, formerly known as its Montieth "B" Well No. 6,
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.

(3) That the directional drilling of the above-described well ~~is necessitated by~~ 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, 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.

(4) That the applicant should be required to determine the subsurface location ~~of the kick-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 "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, 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.

~~PROVIDED HOWEVER, that prior to directional drilling of the well, the operator shall determine the subsurface location of the kick-off point; and~~

PROVIDED ~~FURTHER~~ 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 hereinabove designated.