

CASE 6954: HARVEY E. YATES COMPANY FOR
AMENDMENT OF ORDER NO. R-6303, LEA
COUNTY, NEW MEXICO

DANNUTTER

Box 512 and - 10 days
Amend? Order No. R-6303
in Case 6833

directional dly - amend
target area.

Surf loc 160/NL 1980/NL

32-13-36 Lea.

orig target within 100' of:

660/NL - 1800/NL

bottomed at 654/NL 2158/NL

Rel for No. 7/9

whitten - 4 pl to follow
11:00 am 6/10

Smead

No. 2-153C

HASTINGS, MN - LOS ANGELES, CA
LODAM, ST. - SHERBORN, TX M. & A.

Case No.

6954

Application

Transcripts

Small Exhibits

ETC

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

23 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Com-
pany for amendment of Order No.
R-6303, Lea County, New Mexico.

CASE
6954

BEFORE: Richard L. Stamets

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:

Robert H. Strand, Esq.
Suite 300
Security National Bank Bldg.
Roswell, New Mexico 88201

SAL Y W. BOYD, C.S.R.

Rt. 1 Box 193-B

Santa Fe, New Mexico 87501

Phone (505) 455-7409

I N D E X

RANDOLPH C. SMITH

Direct Examination by Mr. Strand 4

Cross Examination by Mr. Stamets 7

SAL W. BOYD, C.S.R.
Box 193-B
Salinas, New Mexico 87501
Phone (505) 455-7409

E X H I B I T S

Applicant Exhibit One, Plat 5

Applicant Exhibit Two, Survey 5

1 MR. STAMETS: We'll call next Case 6954.

2 MR. PADILLA: Application of Harvey E.
3 Yates Company for amendment of Order No. R-6303, Lea County,
4 New Mexico.

5 MR. STRAND: Mr. Examiner, Robert H.
6 Strand, attorney from Roswell, appearing for the applicant,
7 Harvey E. Yates Company, and we have one witness, Mr. Randy
8 Smith, who needs to be sworn.

9
10 (Witness sworn.)
11

12 MR. STRAND: Mr. Examiner, for the record

13 the Division has previously entered Order No. R-6303 in Case

14 Number 6833, authorizing the applicant, Harvey E. Yates Com-
15 pany to re-enter the abandoned Superior Betenbough No. 1 well
16 located 660 from the north line and 1980 from the west line
17 of Section 32, Township 13 South, Range 36 East, Lea County,
18 New Mexico, and to re-enter that well and at approximately
19 12,000 feet directionally drill in such manner as to bottom
20 the hole within 100 feet of a point 660 feet from the north
21 line and 1830 feet from the west line of Section 32, at a
22 depth of approximately 13,900 feet in the Austin Mississippian
23 Pool.
24

25 The directional drilling was carried out,
however it did not bottom out within 100 feet of that point,

SALLY W. BOYD, C.S.R.

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Ta. Fe. New Mexico 87501
Phone (505) 435-7409

1 and the purpose of this hearing is to ask that that order be
2 amended to approve the directional drilling that did take
3 place, and the completion which which we will take the testi-
4 mony as to.

5 MR. STAMETS: All right.

7 RANDOLPH C. SMITH

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

11 DIRECT EXAMINATION

12 BY MR. STRAND:

14 please.

15 A. Randolph C. Smith.

16 Q. Mr. Smith, what is your address and occu-
17 pation?

18 A. I'm an exploration geologist for the
19 Harvey E. Yates Company in Midland, Texas.

20 Q. Have you testified before the Division
21 in the past?

22 A. Yes, I have.

23 Q. And are your qualifications a matter of
24 record before the Division?

25 A. Yes, they are.

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Luna, N.M., New Mexico 87501
Phone (505) 455-7400

1 MR. STRAND: Is Mr. Smith considered qual-
2 ified, Mr. Examiner?

3 MR. STAMETS: Yes.

4 Q Mr. Smith, I refer you to Exhibit Number
5 One. Would you please describe that exhibit?

6 A Yes. Exhibit Number One is an ownership
7 land land map with the unit outline in which the HEYCO No. 1
8 Betenbough was re-entered in Section 32 of 13, 36. It also
9 shows the bottom hole location of the sidetracked hole.

10 Q Mr. Smith, could you give us some brief
11 details as to the carrying out of the directional drilling
12 activity?

13 A As you mentioned before, our inten-
14 tion was to stay within 100 feet of the surface location of
15 the Superior old well. We did not know where their bottom
16 hole location was, so we ran a survey down to where we kicked
17 it off. The point which we kicked it off on the old hole was
18 11,293 feet.

19 They were approximately 90 -- excuse me.
20 They were approximately 140 feet northeast of the surface
21 location at the point where we did kick it off.

22 If you look on Exhibit Two.

23 Q Why don't you state for the record what
24 Exhibit Two is?

25 A Okay. Exhibit Two is a copy of the survey

SA L. W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

1 that Eastman Whipstock ran for us on the old Superior Beten-
2 bough hole, also to the point of kickoff, and our new hole
3 that we drilled.

4 On this exhibit in the upper righthand
5 corner you can see at a depth of 10,860 feet, this is the
6 point in which the hole had drifted in the original Superior
7 well. At 11,293 feet, which is the point directly above that,
8 is the point which Harvey Yates kicked the well off, poten-
9 tially to kick it to the west. It started out to the west
10 and rotated and went back to the south and southeast for the
11 remainder of the hole, forcing us to the outside of our 100-
12 foot radius which we had previously requested.

13 Q Mr. Smith, would you state the location
14 in feet from section lines where the hole actually bottomed?
15 Based on Eastman's survey?

16 A The bottom hole location of the New
17 Superior re-entry, which HEYCO drilled, is 654 feet from the
18 north line, 2158 feet from the west line.

19 Q And am I correct, Mr. Smith, that that
20 would be an orthodox location if it was drilled there as a
21 well?

22 A Yes, it would.

23 MR. STRAND: Mr. Examiner, I don't be-
24 lieve I have any further questions.
25

SALL W. JOYD, C.S.R.

Rt. 1 Box 191-B
San Jose, New Mexico 87501
Sinc (505) 455-7409

1

2

CROSS EXAMINATION

3

BY MR. STAMETS:

4

Q

Mr. Smith, what pool is this well com-

5

pleted in?

6

MR. STRAND: Oh, I'm sorry.

7

Mr. Smith, did the directional drilling

8

bottom out in the Austin Mississippian?

9

A

Yes, sir, it did.

10

MR. STRAND: And then was it subsequently

11

plugged back to the Atoka?

12

A

Yes, it was. The Austin Mississippian

13

zone was tested tight, non-productive.

14

Q

Is that the bottom hole location, the

15

Atoka or the bottom hole location at total depth?

16

A

The bottom hole location at the total

17

depth.

18

Q

What's the depth of the Atoka completed

19

interval?

20

A

Let me see here, just a second. I'm

21

looking for the perforations. Excuse me, you wanted the bot-

22

tom hole location at the Atoka depth? Is that what you re-

23

ferred to?

24

Q

The depth of the Atoka perforations.

25

A

Okay. The depth of the Atoka perforations

SALL W. BOYD, C.S.R.

Q-1 Box 191-B

Suite 100 New Mexico 87501

Phone (505) 453-7409

1 is 12,275.

2 Q That's -- that's close enough.

3 A Yeah, okay.

4 Q For my purposes. What acreage is dedi-
5 cated to this well?

6 A All of Section -- north half of Section
7 32, all of 29 --

8 MR. STRAND: No.

9 A Oh, just Section 32, then.

10 Q Is this 40-acre spacing?

11 MR. STRAND: No, Mr. Examiner, if I may,
12 it's 320-acre spacing unit consisting of the north half of

13 32.

14 Q Okay. So what you need is an approved
15 bottom hole location at this 654/2158, I see.

16 b STAMETS. Any other questions of the
17 witness? He may be excused.

18 Anything further in this case?

19 MR. STRAND: I would move admission of
20 Exhibits One and Two, Mr. Examiner.

21 MR. STAMETS: The exhibits will be ad-
22 mitted, and the case will be taken under advisement.

23

24

(Hearing concluded.)

25

SHIRLEY W. BOYD, C.S.R.

Rt. 1 Box 13-B

Santa Fe, New Mexico 87501

Phone (505) 455-7409

C E R T I F I C A T E

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.

Sally W. Boyd C.S.R.

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Salt Lake, 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. 6954 heard by me on 7-23 19-80.
Richard R. Smith, Examiner
Oil Conservation Division

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date

JULY 9, 1980

Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
GUORAND BJERKE	SUPRON ENERGY CORP.	DALLAS
JERRY L. Lee	SUPRON ENERGY CORP.	DALLAS
SG. Buell	Jasper & Buell	Santa Fe
Tom Kellahin	Kellahin & Kellahin	Santa Fe
William L. Fox	Campbell & Black	Santa Fe
Amado Lopez	USGS	Albuquerque
John LaBonte	Kennel Oil & Gas Inc	Midland
Chad Dulaun	Lane Comm & Dushen	Midland
C. E. Kalliger	Gulf Oil Corp.	Hobbs NM
K. M. Mallon	Gulf Oil Corp	Houston, Tex.
Bill Kester	Gulf Oil Corp	Farmington
Curtis Little	Self	Midland
B. S. Stewser	Gulf Oil Corp.	Santa Fe
Bob Miller	Capital America	Midland
Steve Salmer	BTA Oil Prod.	Midland
Steve Payton	BTA Oil Producer	El Paso, TX
Ed. J. F. Linn	El Paso Natural Gas Co.	El Paso, TX
Paul H. Marshall	El Paso Natural Gas Co.	Farmington NM
WD Dawson	El Paso Exploration Co.	El Paso, TX
Don Lippin	El Paso Natural Gas Co.	

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date

JULY 9, 1980

Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
James T. Jennings	Jennings & Christy	Roswell
W. J. Cavan	Great Western Ref. Co.	M. Ward, Tex.
Donald H. Allen	Donald H. Allen	Roswell, N.M.
R. M. Williams	Morris R. Astwood	Hobbs
A. B. Kendrick	John Schalk	Artes
William S. Johnson	"	Wichita Falls, Tex.

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

23 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Com-
pany for amendment of Order No.
R-6303, Lea County, New Mexico.

CASE
6954

BEFORE: Richard L. Stamets

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:

Robert H. Strand, Esq.
Suite 300
Security National Bank Bldg.
Roswell, New Mexico 88201

SAL W. BOYD, C.S.D.

Re: L Box 199-B

Santa Fe, New Mexico 87501
Phone (505) 455-7400

I N D E X

RANDOLPH C. SMITH

Direct Examination by Mr. Strand

4

Cross Examination by Mr. Stamets

7

SALLY W. BOYD, C.S.R.

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San Jose, New Mexico 87501
Phone (505) 455-7409

C O N T E N T S

Applicant Exhibit One, Plat

5

Applicant Exhibit Two, Survey

5

1 MR. STAMETS: We'll call next Case 6954.

2 MR. PADILLA: Application of Harvey E.

3 Yates Company for amendment of Order No. R-6303, Lea County,
4 New Mexico.

5 MR. STRAND: Mr. Examiner, Robert H.
6 Strand, attorney from Roswell, appearing for the applicant,
7 Harvey E. Yates Company, and we have one witness, Mr. Randy
8 Smith, who needs to be sworn.

9
10 (Witness sworn.)
11

12 MR. STRAND: Mr. Examiner, for the record,
13

14 The Division has previously entered Order NO. R-6303 in Case
15 Number 6833, authorizing the applicant, Harvey E. Yates Com-
16 pany to re-enter the abandoned Superior Betenbough No. 1 Well
17 located 660 from the north line and 1980 from the west line
18 of Section 32, Township 13 South, Range 36 East, Lea County,
19 New Mexico, and to re-enter that well and at approximately
20 12,000 feet directionally drill in such manner as to bottom
21 the hole within 100 feet of a point 660 feet from the north
22 line and 1830 feet from the west line of Section 32, at a
23 depth of approximately 13,900 feet in the Austin Mississippian
24 Pool.
25

The directional drilling was carried out,
however it did not bottom out within 100 feet of that point,

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B

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Phone (505) 455-7409

1 and the purpose of this hearing is to ask that that order be
2 amended to approve the directional drilling that did take
3 place, and the completion which which we will take the testi-
4 mony as to.

5 MR. STAMETS: All right.

6
7 RANDOLPH C. SMITH

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

10
11 DIRECT EXAMINATION

12 BY MR. STRAND:

13
14 please.

15 A. Randolph C. Smith.

16 Q. Mr. Smith, what is your address and occu-
17 ration?

18 A. I'm an exploration geologist for the
19 Harvey E. Yates Company in Midland, Texas.

20 Q. Have you testified before the Division
21 in the past?

22 A. Yes, I have.

23 Q. And are your qualifications a matter of
24 record before the Division?

25 A. Yes, they are.

SALLY W. BOYD, C.S.R.

Rt. 1 Box 199-3

1113 P.O. New Mexico 87501

Phone (505) 455-7409

1 MR. STRAND: Is Mr. Smith considered qual-
2 ified, Mr. Examiner?

3 MR. STAMETS: Yes.

4 Q Mr. Smith, I refer you to Exhibit Number
5 One. Would you please describe that exhibit?

6 A Yes. Exhibit Number One is an ownership
7 land land map with the unit outline in which the HEYCO No. 1
8 Betenbough was re-entered in Section 32 of 13, 36. It also
9 shows the bottom hole location of the sidetracked hole.

10 Q Mr. Smith, could you give us some brief
11 details as to the carrying out of the directional drilling
12 activity?
13

14 tion was to stay within 100 feet of the surface location of
15 the Superior old well. We did not know where their bottom
16 hole location was, so we ran a survey down to where we kicked
17 it off. The point which we kicked it off on the old hole was
18 11,293 feet.

19 They were approximately 90 -- excuse me.
20 They were approximately 140 feet northeast of the surface
21 location at the point where we did kick it off.

22 If you look on Exhibit Two.

23 Q Why don't you state for the record what
24 Exhibit Two is?

25 A Okay. Exhibit Two is a copy of the survey

S/ LLY W. BOYD, C.S.R.

Rt. 1 Box 113-B

Santa Fe, New Mexico 87501

Phone (505) 4-5-7409

1 that Eastman Whipstock ran for us on the old Superior Beten-
2 bough hole, also to the point of kickoff, and our new hole
3 that we drilled.

4 On this exhibit in the upper righthand
5 corner you can see at a depth of 10,860 feet, this is the
6 point in which the hole had drifted in the original Superior
7 well. At 11,293 feet, which is the point directly above that,
8 is the point which Harvey Yates kicked the well off, poten-
9 tially to kick it to the west. It started out to the west
10 and rotated and went back to the south and southeast for the
11 remainder of the hole, forcing us to the outside of our 100-
12 foot radius which we had previously requested.

13
14 in feet from section lines where the hole actually bottomed?
15 Based on Eastman's survey?

16 A The bottom hole location of the New
17 Superior re-entry, which HEYCO drilled, is 654 feet from the
18 north line, 2158 feet from the west line.

19 Q And am I correct, Mr. Smith, that that
20 would be an orthodox location if it was drilled there as a
21 well?

22 A Yes, it would.

23 MR. STRAND: Mr. Examiner, I don't be-
24 lieve I have any further questions.
25

SA LLY W. BOYD, C.S.R.

Rt. 1 Box 191-B
Jula Fe, New Mexico 87501
Phone (505) 455-7409

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Smith, what pool is this well completed in?

MR. STRAND: Oh, I'm sorry.

Mr. Smith, did the directional drilling bottom out in the Austin Mississippian?

A Yes, sir, it did.

MR. STRAND: And then was it subsequently plugged back to the Atoka?

A Yes, it was. The Austin Mississippian zone was tested tight, non-productive.

Q Is that the bottom hole location, the Atoka or the bottom hole location at total depth?

A The bottom hole location at the total depth.

Q What's the depth of the Atoka completed interval?

A Let me see here, just a second. I'm looking for the perforations. Excuse me, you wanted the bottom hole location at the Atoka depth? Is that what you referred to?

Q The depth of the Atoka perforations.

A Okay. The depth of the Atoka perforations

SAL W. BOYD, C.S.R.

Rt. 1 Box 193-B

St. Fe, New Mexico 87501

Phone (505) 455-7409

1 is 12,275.

2 Q That's -- that's close enough.

3 A Yeah, okay.

4 Q For my purposes. What acreage is dedi-
5 cated to this well?

6 A All of Section -- north half of Section
7 32, all of 29 --

8 MR. STRAND: No.

9 A Oh, just Section 32, then.

10 Q Is this 640-acre spacing?

11 MR. STRAND: No. Mr. Examiner, if I may,
12 it's 320-acre spacing unit consisting of the north half of
13 32.

14 Q Okay. So what you need is an approved
15 bottom hole location at this 654/2158, I see.

16 MR. STAMETS: Any other questions of the
17 witness? He may be excused.

18 Anything further in this case?

19 MR. STRAND: I would move admission of
20 Exhibits One and Two, Mr. Examiner.

21 MR. STAMETS: The exhibits will be ad-
22 mitted, and the case will be taken under advisement.

23

24

(Hearing concluded.)

25

SALLI W. BOYD, C.S.R.

11 Box 193-B
San Antonio, New Mexico 87501
Tel. (505) 455-7409

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, C.S.R.

Rt. 1 Box 193-B
Saginaw, Michigan 48601
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. _____, heard by me on _____ 19____.

_____, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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. 6954
Order No. R-6428

APPLICATION OF HARVEY E. YATES
COMPANY FOR AMENDMENT OF ORDER
NO. R-6303, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 23, 1980,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 4th day of August, 1980, 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 in this case, Harvey E. Yates
Company, received authority under Division Order No. R-6303
entered March 25, 1980, to directionally drill the
Betanbough Well No. 1, the surface location of which is
660 feet from the North line and 1980 feet from the West
line of Section 32, Township 13 South, Range 36 East, Lea
County, New Mexico, in such a manner as to bottom it
within 100 feet of a point 660 feet from the North line
and 1830 feet from the West line of said Section 32 in the
Austin-Mississippian Pool.

(3) That upon completion of said directional drilling
the bottom hole location was determined to be 654 feet from
the North line and 2158 feet from the West line of said
Section 32 at a measured depth of 13,645 feet.

-2-
Case No. 6954
Order No. R-6428

(4) That the applicant now seeks amendment of said Order No. R-6303 to provide for approval of the actual bottom hole location obtained.

(5) That no offset operator or any other party appeared and objected to the proposed order amendment.

(6) That Division Order No. R-6303 should be amended as requested in this case.

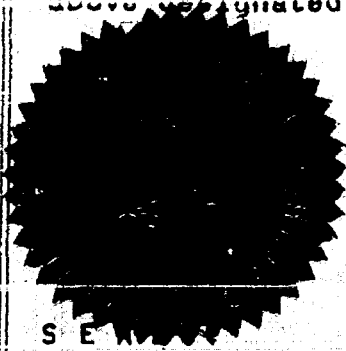
IT IS THEREFORE ORDERED:

(1) That paragraph one of Order (1) of Division Order No. R-6303, entered March 25, 1980, is hereby amended to read in its entirety as follows:

"(1) That the applicant, Harvey E. Yates Company, is hereby authorized to re-enter the Superior Batenbough Well No. 1, a plugged and abandoned well the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East, NMPM, Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet, and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 654 feet from the North line and 2158 feet from the West line of said Section 32 at a depth of approximately 13,645 feet in the Austin-Mission 'Apian Pool."

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

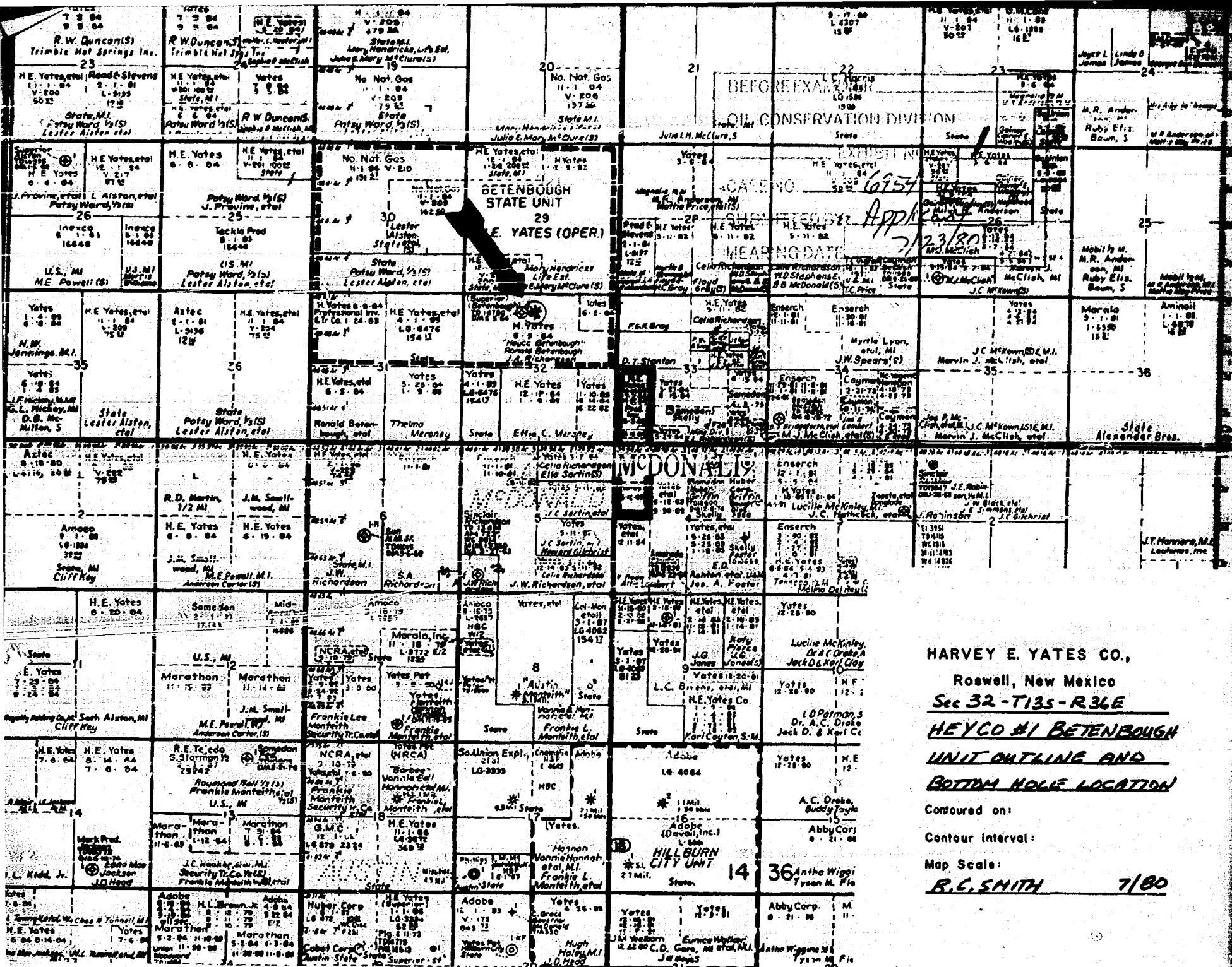
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Joe D. Ramey
JOE D. RAMEY
Director

dr/





**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

BEFORE EXAMINER _____
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. 6954
SUBMITTED BY Applicant
HEARING DATE 7/23/80

HEYCO
COMPANY

BETENBOUGH WELL NO. 1
WELL NAME

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

WT-480 G-1643
WT-480 S-1644
WT-580 S-1857

TYPE OF SURVEY

Gyroscopic Multiple Shot
Magnetic Multiple Shot
Magnetic Multiple Shot

DATE

4-16-80
4-17-80
5-18-80

SURVEY BY
Richard Shimshack
Richard Shimshack
Tim Stephens

OFFICE
West Texas

HEYCO
BETENBOUGH WELL NO. 1
LEA COUNTY, NEW MEXICO

EASTMAN WHIPSTOCK INC.	
GYROSCOPIC MULTIPLE SHOT SURVEY	WT480-G1643
SURVEYOR RICHARD SHIMSHACK	(0-4600)
MAGNETIC MULTIPLE SHOT SURVEY	WT480-S1644
SURVEYOR RICHARD SHIMSHACK	(4600-11235)
MAGNETIC MULTIPLE SHOT SURVEY	WT580-S1857
SURVEYOR TIM STEPHENS	(11,235-13,645)

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

HEYCO
 BETENBOUGH WELL NO. 1
 LEA COUNTY, NEW MEXICO

COMPUTATION
 TIME DATE
 01:22:29 00 00
 PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
0.	0 0	0	0.00	0.00	0.00	0.00
100.	0 15	N 9 E	100.00	0.21 N	0.03 E	0.25
200.	0 30	N 17 E	200.00	0.85 N	0.18 E	0.25
300.	0 0	0	300.00	1.27 N	0.31 E	0.30
400.	0 15	S 17 E	400.00	1.06 N	0.37 E	0.25
500.	0 30	S 3 E	499.99	0.42 N	0.49 E	0.26
600.	0 0	0	599.99	0.02 S	0.51 E	0.50
700.	0 30	S 29 E	699.99	0.40 S	0.72 E	0.50
800.	0 30	S 31 E	799.99	1.15 S	1.16 E	0.02
900.	0 15	S 41 E	899.99	1.68 S	1.54 E	0.26
1000.	0 0	0	999.98	1.85 S	1.68 E	0.25
1100.	0 15	N 21 W	1099.98	1.65 S	1.61 E	0.25
1200.	0 0	0	1199.98	1.44 S	1.53 E	0.25
1300.	0 30	S 35 E	1299.98	1.80 S	1.78 E	0.50
1400.	0 45	S 89 E	1399.98	2.29 S	2.71 E	0.61
1500.	0 0	0	1499.97	1.78 S	3.87 E	0.63
1600.	1 0	N 60 E	1599.96	0.61 S	3.07 E	0.53
1700.	1 0	N 53 E	1699.94	0.15 N	6.49 E	0.12
1800.	1 0	N 58 E	1799.93	1.14 N	7.93 E	0.09
1900.	1 0	N 37 E	1899.91	2.31 N	9.21 E	0.36
2000.	0 45	N 46 E	1999.90	3.45 N	10.22 E	0.28
2100.	0 30	N 54 E	2099.89	4.15 N	11.06 E	0.26
2200.	0 0	0	2199.89	4.41 N	11.41 E	0.50
2300.	0 0	0	2299.89	4.41 N	11.41 E	0.00
2400.	0 0	0	2399.89	4.41 N	11.41 E	0.00
2500.	0 0	0	2499.89	4.41 N	11.41 E	0.00
2600.	0 0	0	2599.89	4.41 N	11.41 E	0.00
2700.	0 0	0	2699.89	4.41 N	11.41 E	0.00
2800.	0 0	0	2799.89	4.41 N	11.41 E	0.00
2900.	0 30	N 24 W	2899.89	4.81 N	11.23 E	0.50

HEYCO
 BETENBOUGH WELL NO. 1
 LEA COUNTY, NEW MEXICO

COMPUTATION
 TIME DATE
 01:28:39 00--00

PAGE NO.

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D.	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
3000.	1 0	N 17 W	2999.88	6.03 N	10.77 E	0.51
3100.	1 15	N 13 W	3099.86	7.93 N	10.27 E	0.26
3200.	1 15	N 9 W	3199.84	10.07 N	9.85 E	0.09
3300.	1 30	N 1 W	3299.81	12.46 N	9.64 E	0.31
3400.	2 0	N 6 E	3399.76	15.51 N	9.77 E	0.54
3500.	1 30	N 4 E	3499.72	18.55 N	10.04 E	0.50
3600.	2 0	N 11 E	3599.67	21.58 N	10.44 E	0.54
3700.	2 15	N 17 E	3699.60	25.17 N	11.34 E	0.33
3800.	2 15	N 10 E	3799.52	28.99 N	12.25 E	0.27
3900.	2 15	N 10 E	3899.45	32.85 N	12.93 E	0.00
4000.	2 15	N 17 E	3999.37	36.67 N	13.85 E	0.27
4100.	1 45	N 28 E	4099.31	39.89 N	15.18 E	0.63
4200.	1 30	N 36 E	4199.27	42.29 N	16.68 E	0.34
4300.	1 30	N 41 E	4299.23	44.34 N	18.31 E	0.13
4400.	1 30	N 46 E	4399.20	46.24 N	20.11 E	0.13
4500.	1 15	N 13 E	4499.17	48.30 N	21.28 E	0.82
4600.	1 45	N 48 E	4599.14	50.52 N	22.59 E	1.02
4757.	1 15	N 35 E	4756.08	53.59 N	25.30 E	0.38
4851.	1 30	N 23 E	4850.05	55.57 N	26.45 E	0.35
4945.	1 15	N 29 E	4944.03	57.53 N	27.49 E	0.28
5039.	1 30	N 20 E	5038.00	59.58 N	28.42 E	0.35
5133.	1 45	N 48 E	5131.96	61.77 N	29.90 E	0.88
5227.	1 15	N 38 E	5225.93	63.56 N	31.57 E	0.60
5321.	1 15	N 34 E	5319.91	65.22 N	32.78 E	0.09
5415.	1 30	N 54 E	5413.88	66.84 N	34.34 E	0.57
5508.	1 45	N 45 E	5506.84	68.55 N	36.34 E	0.38
5602.	1 15	N 60 E	5600.81	70.04 N	38.29 E	0.67
5696.	2 0	N 51 E	5694.77	71.55 N	40.48 E	0.84
5790.	1 45	N 59 E	5788.72	73.72 N	42.65 E	0.49
5884.	1 15	N 62 E	5882.69	75.27 N	44.54 E	0.82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
5978.	1 0	N 55 E	5976.67	76.24 N	46.11 E	0.30
6072.	1 30	N 49 E	6070.65	77.50 N	47.73 E	0.55
6166.	1 15	N 70 E	6164.62	78.64 N	49.66 E	0.59
6260.	1 30	N 68 E	6258.59	79.45 N	51.76 E	0.27
6353.	1 15	N 65 E	6351.56	80.34 N	53.81 E	0.28
6447.	1 0	N 47 E	6445.55	81.36 N	55.33 E	0.46
6541.	1 30	N 47 E	6539.52	82.76 N	56.83 E	0.53
6635.	1 45	N 78 E	6633.49	83.98 N	59.17 E	0.96
6729.	1 15	N 53 E	6727.45	84.90 N	61.44 E	0.76
6823.	1 15	N 83 E	6821.43	85.57 N	63.36 E	0.58
6917.	1 30	N 59 E	6915.40	86.30 N	65.47 E	0.66
7011.	1 0	N 50 E	7009.38	87.49 N	67.14 E	0.57
7104.	0 45	S 85 E	7102.37	87.91 N	68.46 E	0.76
7198.	0 45	N 81 E	7196.36	87.95 N	69.69 E	0.19
7292.	1 15	N 56 E	7290.35	88.55 N	71.20 E	0.69
7386.	1 0	N 48 E	7384.33	89.68 N	72.65 E	0.31
7480.	1 0	N 82 E	7478.32	90.37 N	74.12 E	0.62
7574.	1 0	N 34 E	7572.30	91.21 N	75.47 E	0.87
7668.	1 0	N 80 E	7666.29	92.08 N	76.81 E	0.83
7762.	1 15	N 49 E	7760.27	92.87 N	78.46 E	0.69
7855.	1 15	N 56 E	7853.25	94.10 N	80.06 E	0.16
7949.	1 30	N 53 E	7947.22	95.41 N	81.90 E	0.28
8043.	1 15	N 40 E	8041.19	96.96 N	83.53 E	0.42
8137.	1 15	N 38 E	8135.17	98.55 N	84.82 E	0.05
8231.	1 15	N 53 E	8229.15	99.98 N	86.28 E	0.35
8325.	0 45	N 83 E	8323.13	100.59 N	87.78 E	0.75
8419.	1 30	N 76 E	8417.12	100.93 N	89.60 E	0.81
8513.	1 0	N 52 E	8511.09	101.82 N	91.43 E	0.76
8606.	1 15	N 54 E	8604.08	102.92 N	92.89 E	0.27
8700.	1 30	N 56 E	8698.05	104.21 N	94.73 E	0.27

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D.	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
8794.	1 15	N 70 E	8792.02	105.23 N	96.74 E	0.44
8888.	1 0	N 89 E	8886.00	105.57 N	98.54 E	0.47
8982.	1 15	N 77 E	8979.98	105.79 N	100.37 E	0.36
9076.	1 15	N 89 E	9073.96	106.04 N	102.41 E	0.28
9170.	1 15	N 60 E	9167.94	106.59 N	104.36 E	0.67
9264.	1 0	N 71 E	9261.92	107.35 N	106.04 E	0.35
9358.	1 0	N 67 E	9355.91	107.94 N	107.57 E	0.07
9451.	1 0	N 74 E	9448.89	108.48 N	109.10 E	0.13
9545.	1 0	N 80 E	9542.88	108.85 N	110.70 E	0.11
9639.	1 15	N 84 E	9636.86	109.11 N	112.52 E	0.28
9733.	1 30	S 86 E	9730.83	109.14 N	114.78 E	0.37
9827.	1 0	S 59 E	9824.81	108.53 N	116.71 E	0.81
9921.	1 0	S 78 E	9918.79	107.94 N	118.23 E	0.35
10015.	1 15	S 89 E	10012.78	107.73 N	120.06 E	0.35
10109.	1 15	S 65 E	10106.75	107.27 N	122.05 E	0.55
10202.	1 15	S 86 E	10199.73	106.76 N	124.00 E	0.49
10296.	1 0	N 87 E	10293.71	106.75 N	125.85 E	0.30
10390.	1 0	S 57 E	10387.70	106.33 N	127.41 E	0.66
10484.	0 45	N 72 E	10481.69	106.15 N	128.78 E	0.84
10578.	1 0	S 66 E	10575.63	106.08 N	130.18 E	0.71
10672.	1 0	S 70 E	10669.66	105.46 N	131.70 E	0.07
10766.	0 45	S 61 E	10763.65	104.87 N	133.01 E	0.30
10860.	0 45	S 38 E	10857.64	104.07 N	133.94 E	0.32
10953.	0 30	N 1 E	10950.64	104.32 N	134.67 E	1.27
11047.	0 15	N 53 W	11044.63	104.85 N	134.41 E	0.43
11141.	1 0	N 44 W	11138.63	105.53 N	133.65 E	0.90
11235.	0 45	N 37 W	11232.62	106.62 N	132.71 E	0.29
11289.	2 0	S 9 W	11286.60	106.38 N	131.73 E	4.77
11383.	3 45	S 19 E	11380.48	101.73 N	132.13 E	2.33
11477.	3 45	S 40 E	11474.28	96.40 N	135.14 E	1.45

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D.	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DS/100FT
11572.	5 0	S 57 E	11569.00	91.62 N	140.55 E	1.88
11666.	4 0	S 54 E	11662.71	87.44 N	146.63 E	1.09
11760.	4 0	S 51 E	11756.48	83.45 N	151.83 E	0.22
11854.	4 0	S 47 E	11850.25	79.15 N	156.78 E	0.30
11949.	4 0	S 44 E	11945.02	74.51 N	161.50 E	0.22
12043.	4 0	S 45 E	12038.79	69.83 N	166.10 E	0.07
12137.	3 0	S 45 E	12132.62	65.77 N	170.16 E	1.06
12231.	3 0	S 36 E	12226.49	62.00 N	173.35 E	0.50
12325.	2 15	S 36 E	12320.39	58.55 N	175.88 E	0.80
12420.	2 15	S 38 E	12415.31	55.57 N	178.12 E	0.08
12514.	2 15	S 29 E	12509.24	52.50 N	180.16 E	0.38
12608.	2 0	S 25 E	12603.18	49.40 N	181.74 E	0.31
12702.	2 0	S 17 E	12697.12	46.33 N	182.91 E	0.30
12797.	3 0	S 5 W	12792.03	42.24 N	183.35 E	1.44
12891.	3 30	S 8 W	12885.88	36.94 N	182.74 E	0.56
12985.	3 15	S 6 W	12979.71	31.45 N	182.07 E	0.29
13079.	3 0	S 1 W	13073.57	26.24 N	181.35 E	0.25
13173.	2 30	S 8 W	13167.46	21.85 N	181.40 E	0.64
13268.	2 15	S 5 W	13262.38	17.93 N	180.96 E	0.29
13362.	2 15	S 23 W	13356.31	14.37 N	180.07 E	0.75
13456.	1 45	S 18 W	13450.25	11.30 N	178.92 E	0.56
13550.	1 30	S 11 W	13544.21	8.72 N	178.25 E	0.34
13645.	2 0	S 25 W	13639.17	5.97 N	177.36 E	0.69

FINAL CLOSURE - DIRECTION: N 88 DEGS 4 MINS E
DISTANCE: 177.46 FEET

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 16, 1980 thru April 16, 1980 conduct or supervise the taking of a Cyroscopic Multiple Shot survey by the method of magnetic orientation from a depth of 0 feet to 4600 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the Lea field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

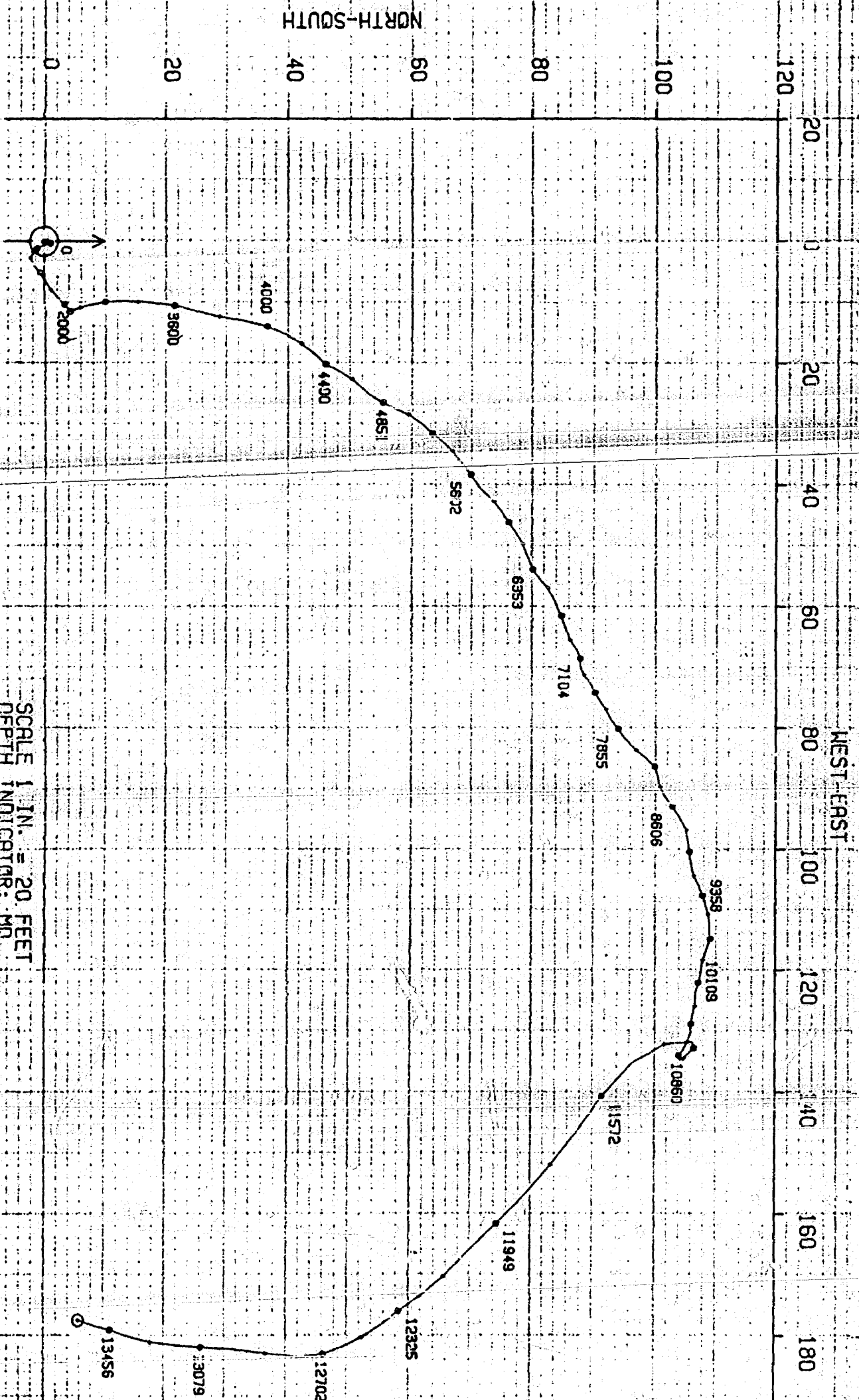
Subscribed and sworn to before me on this 19th day of May, 1980.

Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

BELDENBOUGH WELL NO. 1
NEW MEXICO

EASTMAN M. POSTOCK, INC.

FINAL STATION:
DEPTH 13645 MD. 13639.16 TVD
NORTH 5.96 EAST 177.35
CLOSURE 177.45 N 88.4 25 E



SCALE 1 IN. = 20 FEET
DEPTH INDICATOR: MD



P. O. Box 5577/Midland, Texas 79701/(915) 563-0551
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 17, 19 80 thru April 17, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 4600 feet to 11235 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No.1, Lea County, State of New Mexico, in the Lea field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Rene M. Smith
Notary Public in and for the County of Midland, Texas
My commission expires 5-24-80

Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Worldwide



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Tim Stephens, in the employ of Eastman Whipstock, Inc., did on the days of May 18, 19 80 thru May 18, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 11235 feet to 13045 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Tim Stephens
Directional/Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

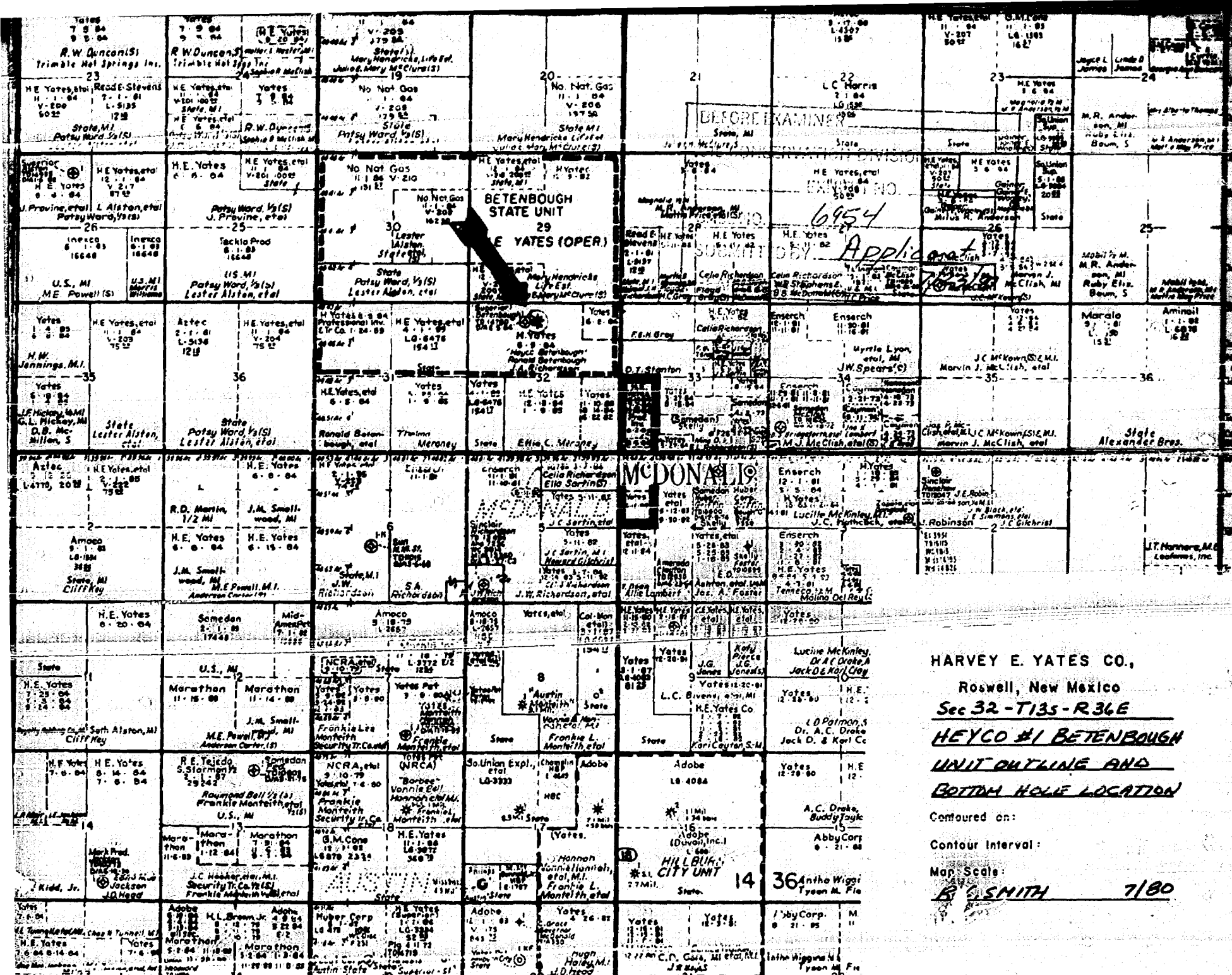
Larry Massey

Before me, the undersigned authority, on this day personally appeared Tim Stephens, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Russ M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Day to end Drillers' Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Workshops





**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

BEFORE EXAMINER

OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6954

SUBMITTED BY Applicant

HEARING DATE 7/23/80

HEYCO
COMPANY

BETENBOUGH WELL NO. 1
WELL NAME

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

WT-480 G-1643
WT-480 S-1644
WT-580 S-1857

TYPE OF SURVEY

Gyroscopic Multiple Shot
Magnetic Multiple Shot
Magnetic Multiple Shot

DATE

4-16-80
4-17-80
5-18-80

SURVEY BY
Richard Shimshack
Richard Shimshack
Tim Stepiens

OFFICE
West Texas

HEYCO
BETENBOUGH WELL NO. 1
LEA COUNTY, NEW MEXICO

EASTMAN WHIPSTOCK INC.	
GYROSCOPIC MULTIPLE SHOT SURVEY	WT480-G1643
SURVEYOR RICHARD SHIMSHACK	(0-4600)
MAGNETIC MULTIPLE SHOT SURVEY	WT480-S1644
SURVEYOR RICHARD SHIMSHACK	(4600-11235)
MAGNETIC MULTIPLE SHOT SURVEY	WT580-S1857
SURVEYOR TIM STEPHENS	(11,235-13,645)

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D.	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
0.	0 0	0	0.00	0.00	0.00	0.00
100.	0 15	N 9 E	100.00	0.21 N	0.03 E	0.25
200.	0 30	N 17 E	200.00	0.85 N	0.18 E	0.25
300.	0 0	0	300.00	1.27 N	0.31 E	0.50
400.	0 15	S 17 E	400.00	1.06 N	0.37 E	0.25
500.	0 30	S 3 E	499.99	0.42 N	0.49 E	0.26
600.	0 0	0	599.99	0.02 S	0.51 E	0.50
700.	0 30	S 29 E	699.99	0.40 S	0.72 E	0.50
800.	0 30	S 31 E	799.99	1.15 S	1.16 E	0.02
900.	0 15	S 41 E	899.99	1.68 S	1.54 E	0.26
1000.	0 0	0	999.98	1.85 S	1.68 E	0.25
1100.	0 15	N 21 W	1099.98	1.65 S	1.61 E	0.25
1200.	0 0	0	1199.98	1.44 S	1.53 E	0.25
1300.	0 30	S 35 E	1299.98	1.23 S	1.78 E	0.50
1400.	0 45	S 37 E	1399.98	2.29 S	2.71 E	0.61
1500.	0 45	N 41 E	1499.97	1.78 S	3.87 E	0.63
1600.	1 0	N 60 E	1599.96	0.81 S	5.04 E	0.38
1700.	1 0	N 53 E	1699.94	0.15 N	6.49 E	0.12
1800.	1 0	N 58 E	1799.93	1.14 N	7.93 E	0.09
1900.	1 0	N 37 E	1899.91	2.31 N	9.21 E	0.36
2000.	0 45	N 46 E	1999.90	3.45 N	10.22 E	0.28
2100.	0 30	N 54 E	2099.89	4.15 N	11.06 E	0.26
2200.	0 0	0	2199.89	4.41 N	11.41 E	0.50
2300.	0 0	0	2299.89	4.41 N	11.41 E	0.00
2400.	0 0	0	2399.89	4.41 N	11.41 E	0.00
2500.	0 0	0	2499.89	4.41 N	11.41 E	0.00
2600.	0 0	0	2599.89	4.41 N	11.41 E	0.00
2700.	0 0	0	2699.89	4.41 N	11.41 E	0.00
2800.	0 0	0	2799.89	4.41 N	11.41 E	0.00
2900.	0 30	N 24 W	2899.89	4.81 N	11.23 E	0.50

HEYCO
 3ETENBOUGH WELL NO. 1
 LEA COUNTY, NEW MEXICO

COMPUTATION
 TIME DATE
 01:28:39 00--00

PAGE NO. 2

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
3000.	1 0	N 17 W	2999.88	6.03 N	10.77 E	0.51
3100.	1 15	N 13 W	3099.86	7.93 N	10.27 E	0.26
3200.	1 15	N 9 W	3199.84	10.07 N	9.85 E	0.09
3300.	1 30	N 1 W	3299.81	12.46 N	9.44 E	0.31
3400.	2 0	N 6 E	3399.76	15.51 N	9.77 E	0.54
3500.	1 30	N 4 E	3499.72	18.55 N	10.04 E	0.50
3600.	2 0	N 11 E	3599.67	21.58 N	10.44 E	0.54
3700.	2 15	N 17 E	3699.60	25.17 N	11.34 E	0.33
3800.	2 15	N 10 E	3799.52	28.22 N	12.25 E	0.27
3900.	2 15	N 10 E	3899.45	32.05 N	12.23 E	0.00
4000.	2 15	N 17 E	3999.37	36.67 N	13.85 E	0.27
4100.	1 45	N 28 E	4099.31	39.89 N	15.18 E	0.63
4200.	1 30	N 36 E	4199.27	42.29 N	16.68 E	0.34
4300.	1 30	N 41 E	4299.23	44.34 N	18.31 E	0.13
4400.	1 30	N 46 E	4399.20	46.24 N	20.11 E	0.13
4500.	1 15	N 13 E	4499.17	48.30 N	21.28 E	0.82
4600.	1 45	N 48 E	4599.14	50.52 N	22.59 E	1.02
4757.	1 15	N 35 E	4756.08	53.59 N	25.30 E	0.38
4851.	1 30	N 26 E	4850.05	55.83 N	26.45 E	0.35
4945.	1 15	N 29 E	4944.03	57.53 N	27.49 E	0.28
5039.	1 30	N 20 E	5038.00	59.58 N	28.42 E	0.35
5133.	1 45	N 48 E	5131.96	61.77 N	29.90 E	0.88
5227.	1 15	N 38 E	5225.93	63.56 N	31.57 E	0.60
5321.	1 15	N 34 E	5319.91	65.22 N	32.78 E	0.09
5415.	1 30	N 54 E	5413.88	66.84 N	34.34 E	0.57
5508.	1 45	N 45 E	5506.84	68.55 N	36.34 E	0.38
5602.	1 15	N 60 E	5600.81	70.04 N	38.29 E	0.67
5696.	2 0	N 51 E	5694.77	71.55 N	40.48 E	0.84
5790.	1 45	N 39 E	5788.72	73.72 N	42.65 E	0.49
5884.	1 15	N 62 E	5882.69	75.27 N	44.54 E	0.82

HEYCO
BETENBOUGH WELL NO. 1
LEA COUNTY, NEW MEXICO

COMPUTATION
TIME DATE
01:28:39 00--00

PAGE NO. 3

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
5978.	1 0	N 55 E	5976.67	76.24 N	46.11 E	0.30
6072.	1 30	N 49 E	6070.65	77.50 N	47.73 E	0.55
6166.	1 15	N 70 E	6164.62	78.64 N	49.66 E	0.59
6260.	1 30	N 68 E	6258.59	79.45 N	51.76 E	0.27
6353.	1 15	N 63 E	6351.56	80.34 N	53.81 E	0.28
6447.	1 0	N 47 E	6445.55	81.36 N	55.33 E	0.46
6541.	1 30	N 47 E	6539.52	82.74 N	56.83 E	0.53
6635.	1 45	N 78 E	6633.49	83.98 N	59.17 E	0.96
6729.	1 15	N 58 E	6727.45	84.90 N	61.44 E	0.76
6823.	1 15	N 83 E	6821.43	85.57 N	63.36 F	0.58
6917.	1 30	N 59 E	6915.40	86.30 N	65.47 E	0.66
7011.	1 0	N 50 E	7009.38	87.49 N	67.14 E	0.57
7104.	0 45	S 85 E	7102.37	87.91 N	68.46 E	0.76
7198.	0 45	N 81 E	7196.36	87.95 N	69.69 E	0.19
7292.	1 15	N 56 E	7290.35	88.55 N	71.20 E	0.69
7386.	1 0	N 48 E	7384.33	89.68 N	72.65 E	0.31
7480.	1 0	N 82 E	7478.32	90.37 N	74.12 E	0.62
7574.	1 0	N 34 E	7572.30	91.21 N	75.47 E	0.87
7668.	1 0	N 80 E	7666.29	92.08 N	76.81 E	0.83
7762.	1 15	N 49 E	7760.27	92.87 N	78.46 E	0.69
7855.	1 15	N 56 E	7853.25	94.10 N	80.06 E	0.16
7949.	1 30	N 53 E	7947.22	95.41 N	81.90 E	0.28
8043.	1 15	N 40 E	8041.19	96.96 N	83.53 E	0.42
8137.	1 15	N 38 E	8135.17	98.55 N	84.82 E	0.05
8231.	1 15	N 53 E	8229.15	99.98 N	86.28 E	0.35
8325.	0 45	N 83 E	8323.13	100.59 N	87.78 E	0.75
8419.	1 30	N 76 E	8417.12	100.93 N	89.60 E	0.81
8513.	1 0	N 52 E	8511.09	101.82 N	91.43 E	0.76
8606.	1 15	N 54 E	8604.08	102.92 N	92.87 E	0.27
8700.	1 30	N 56 E	8698.05	104.21 N	94.73 E	0.27

HEYCO
BETHLEHEM WELLS NO. 1
SANTA FE COUNTY, NEW MEXICO

COMPUTATION
TIME DATE
01:28:39 00--00

PAGE NO. 4

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
8794.	1 15	N 70 E	8792.02	105.23 N	96.74 E	0.44
8888.	1 0	N 89 E	8886.00	105.57 N	98.54 E	0.47
8982.	1 15	N 77 E	8979.98	105.79 N	100.37 E	0.36
9076.	1 15	N 59 E	9073.96	106.04 N	102.41 E	0.28
9170.	1 15	N 60 E	9167.94	106.59 N	104.36 E	0.67
9264.	1 0	N 71 E	9261.92	107.35 N	106.04 E	0.35
9358.	1 0	N 67 E	9355.91	107.94 N	107.57 E	0.07
9451.	1 0	N 74 E	9448.89	108.48 N	109.10 E	0.13
9545.	1 0	N 80 E	9542.88	108.85 N	110.70 E	0.11
9639.	1 15	N 84 E	9636.86	109.11 N	112.52 E	0.28
9733.	1 30	S 86 E	9730.83	109.14 N	114.78 E	0.37
9827.	1 0	S 59 E	9824.81	108.53 N	116.71 E	0.81
9921.	1 0	S 78 E	9918.79	107.94 N	118.23 E	0.35
10015.	1 15	S 89 E	10012.78	107.73 N	120.67 E	0.35
10109.	1 15	S 65 E	10106.75	107.27 N	122.05 E	0.55
10202.	1 15	S 86 E	10199.73	106.76 N	124.00 E	0.49
10296.	1 0	N 87 E	10293.71	106.75 N	125.85 E	0.30
10390.	1 0	S 57 E	10387.70	106.33 N	127.41 E	0.66
10484.	0 45	N 72 E	10481.69	106.15 N	128.78 E	0.84
10578.	1 0	S 66 E	10575.68	106.08 N	130.18 E	0.71
10672.	1 0	S 70 E	10669.66	105.46 N	131.70 E	0.07
10766.	0 45	S 61 E	10763.65	104.87 N	133.01 E	0.30
10860.	0 45	S 38 E	10857.64	104.07 N	133.94 E	0.32
10953.	0 30	N 1 E	10950.64	104.32 N	134.67 E	1.27
11047.	0 15	N 53 W	11044.63	104.85 N	134.41 E	0.43
11141.	1 0	N 44 W	11138.63	108.53 N	133.65 E	0.80
11235.	0 45	N 37 W	11232.62	106.62 N	132.71 E	0.29
11289.	2 0	S 9 W	11286.60	106.38 N	131.73 E	1.77
11383.	3 45	S 19 E	11380.48	101.73 N	132.13 E	2.33
11477.	3 45	S 40 E	11474.28	96.40 N	135.14 E	1.45

HEYCO
SETENBOUGH WELL NO. 1
LEA COUNTY, NEW MEXICO

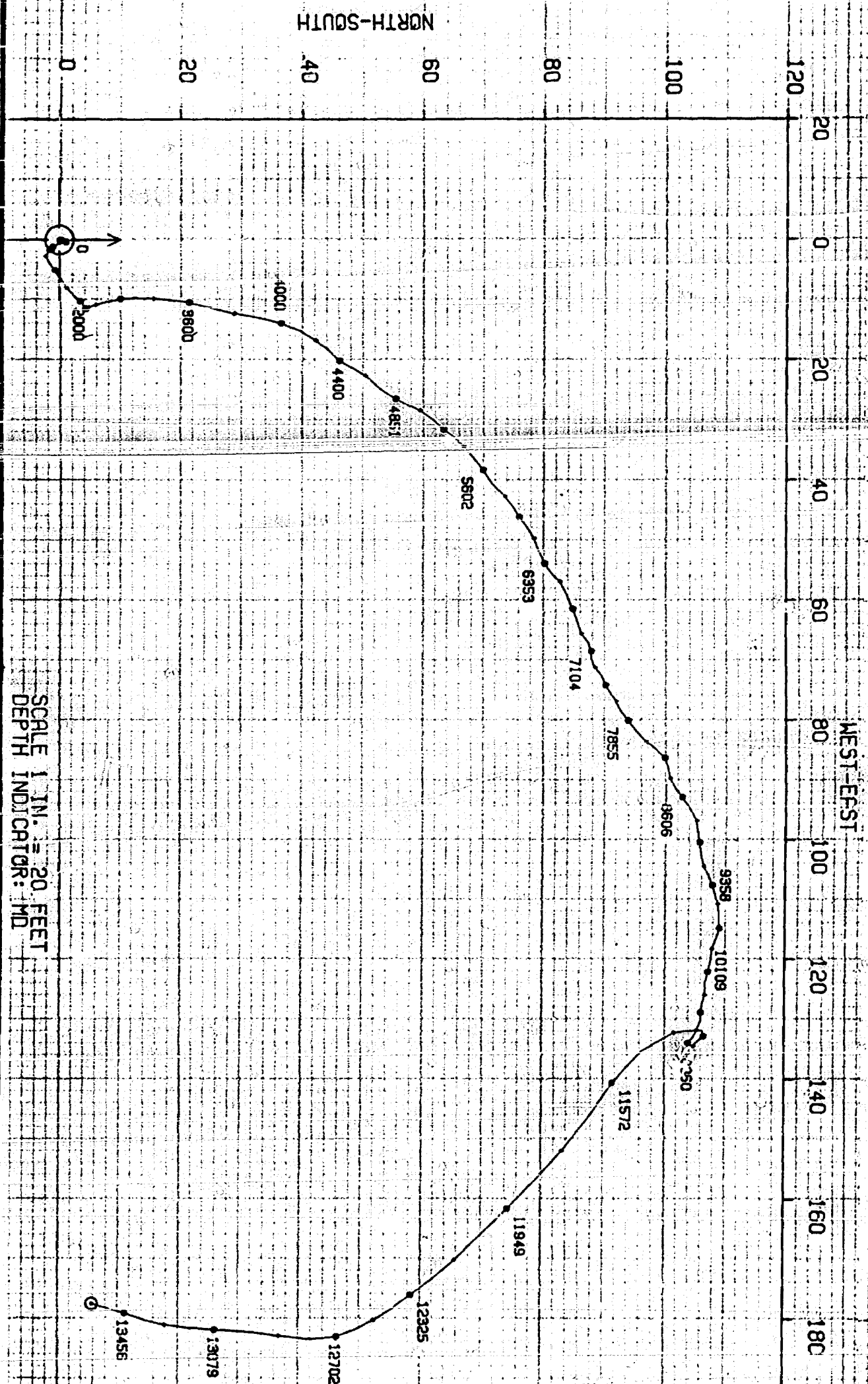
COMPUTATION
TIME DATE
01:28:39 00--00

PAGE NO. 5

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DOG LEG SEVERITY DG/100FT
11572.	5 0	S 57 E	11569.00	91.62 N 140.55 E	1.88
11666.	4 0	S 54 E	11662.71	87.44 N 146.63 E	1.09
11760.	4 0	S 51 E	11756.48	83.45 N 151.83 E	0.22
11854.	4 0	S 47 E	11850.25	79.15 N 156.78 E	0.30
11949.	4 0	S 44 E	11945.02	74.51 N 161.50 E	0.22
12043.	4 0	S 45 E	12038.79	69.83 N 166.10 E	0.07
12137.	3 0	S 45 E	12132.62	65.77 N 170.16 E	1.06
12231.	3 0	S 36 E	12226.49	62.04 N 173.35 E	0.50
12325.	2 15	S 36 E	12320.39	58.55 N 175.88 E	0.80
12420.	2 15	S 38 E	12415.31	55.57 N 178.12 E	0.08
12514.	2 15	S 29 E	12509.24	52.50 N 180.16 E	0.38
12608.	2 0	S 25 E	12603.18	49.40 N 181.74 E	0.31
12702.	2 0	S 17 E	12697.12	46.33 N 182.91 E	0.30
12797.	3 0	S 5 W	12792.03	42.24 N 183.35 E	1.44
12891.	3 30	S 8 W	12885.88	38.94 N 182.74 E	0.56
12985.	3 15	S 6 W	12979.71	31.45 N 182.07 E	0.29
13079.	3 0	S 1 W	13073.57	26.34 N 181.75 E	0.39
13173.	2 30	S 8 W	13167.46	21.85 N 181.40 E	0.64
13268.	2 15	S 5 W	13262.38	17.93 N 180.96 E	0.29
13362.	2 15	S 23 W	13356.31	14.37 N 180.07 E	0.75
13456.	1 45	S 18 W	13450.25	11.30 N 178.92 E	0.56
13550.	1 30	S 11 W	13544.21	8.72 N 178.25 E	0.34
13645.	2 0	S 25 W	13639.17	5.97 N 177.36 E	0.69

FINAL CLOSURE - DIRECTION: N 88 DEGS 4 MINS E
DISTANCE: 177.46 FEET

FINAL STATION:	13639.16	WCL
DEPTH	13645 MD	
NORTH	5.96 EAST	177.35
CLOSURE	177.45 N	88 4 25 E





P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 16, 19 80 thru April 16, 19 80 conduct or supervise the taking of a Gyroscopic Multiple Shot survey by the method of magnetic orientation from a depth of 0 feet to 4600 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Directional Drillers/Sub Surface Surveyors/Instrument & Tool Rentals/Sales/Workover



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 17, 19 80 thru April 17, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 4600 feet to 11235 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No.1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales Worldwide



P. O. Box 5577/Midland, Texas 79701/(915) 562-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Tim Stephens, in the employ of Eastman Whipstock, Inc., did on the days of May 18, 19 80 thru May 18, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 11235 feet to 13675 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Tim Stephens
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

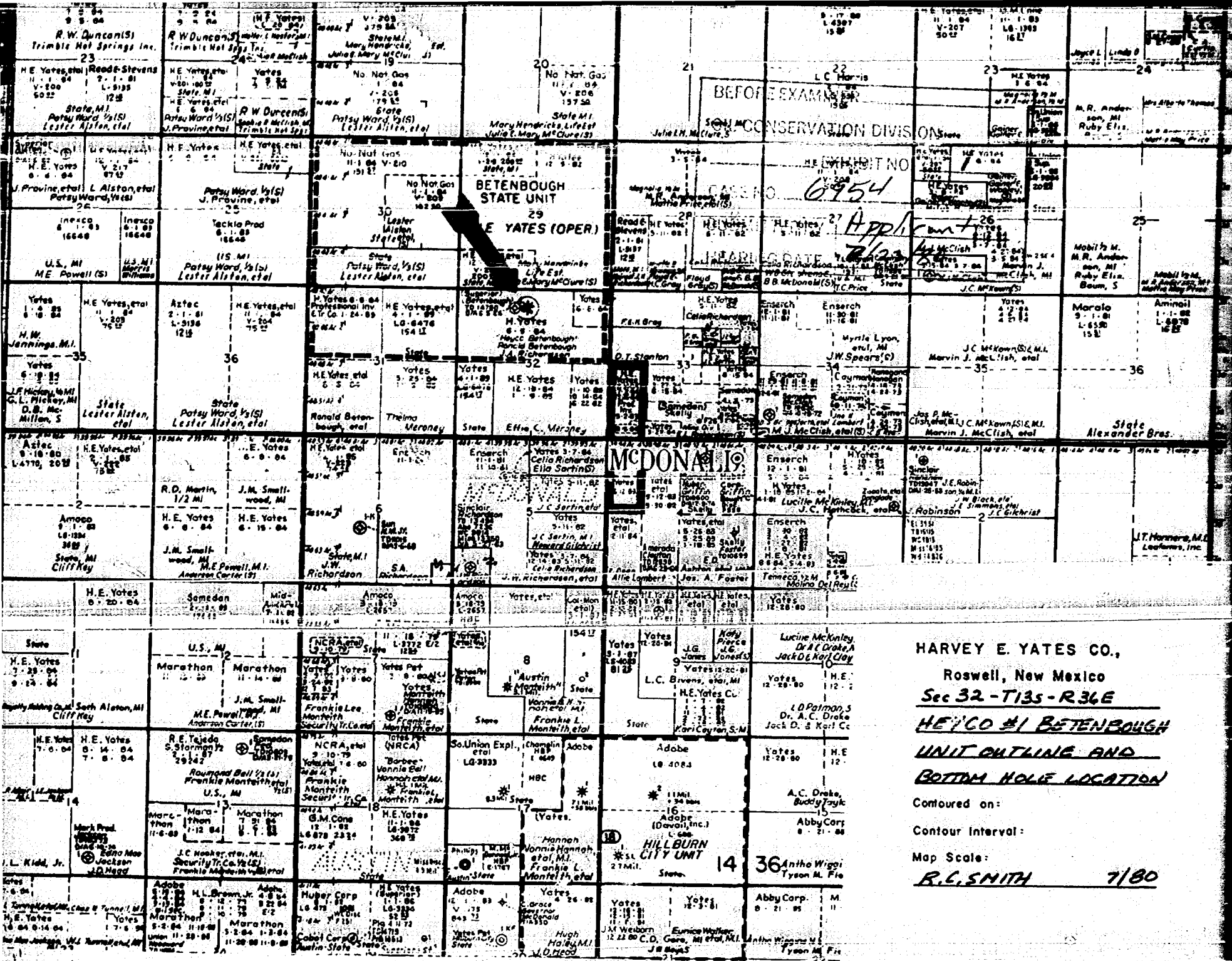
Larry Massey

Before me, the undersigned authority, on this day personally appeared Tim Stephens, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Primo M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Directional Drillers / Sub-Surface Surveyors / Instrument & Tool Rentals / Sales / Worldwide





**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

BEFORE EXAMINER _____
OIL CONSERVATION DIVISION
CASE NO. 6954 EXHIBIT NO. 2
SUBMITTED BY Applicant
HEARING DATE 7/23/80

II EYCO
COMPANY

BETENBOUGH WELL NO. 1
WELL NAME

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

WT-480 G-1643
WT-480 S-1644
WT-580 S-1857

TYPE OF SURVEY

Gyroscopic Multiple Shot
Magnetic Multiple Shot
Magnetic Multiple Shot

DATE

4-16-80
4-17-80
5-18-80

SURVEY BY
Richard Shimshack
Richard Shimshack
Tim Stephens

OFFICE
West Texas

HEYCO
BETENBOUGH WELL NO. 1
LEA COUNTY, NEW MEXICO

EASTMAN WHIPSTOCK INC.
GYROSCOPIC MULTIPLE SHOT SURVEY
SURVEYOR RICHARD SHIMSHACK
MAGNETIC MULTIPLE SHOT SURVEY
SURVEYOR RICHARD SHIMSHACK
MAGNETIC MULTIPLE SHOT SURVEY
SURVEYOR TIM STEPHENS

WT480-G1643
(0-4600)
WT'80-S1644
(4600-11235)
WT580-S1857
(11,235-13,645)

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D.	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
0.	0 0	0	0.00	0.00	0.00	0.00
100.	0 15	N 9 E	100.00	0.21 N	0.03 E	0.25
200.	0 30	N 17 E	200.00	0.85 N	0.18 E	0.25
300.	0 0	0	300.00	1.27 N	0.31 E	0.50
400.	0 15	S 17 E	400.00	1.06 N	0.37 E	0.25
500.	0 30	S 3 E	499.99	0.42 N	0.49 E	0.26
600.	0 0	0	599.99	0.02 S	0.51 E	0.50
700.	0 30	S 29 E	699.99	0.40 S	0.72 E	0.50
800.	0 30	S 31 E	799.99	1.15 S	1.16 E	0.02
900.	0 15	S 41 E	899.99	1.68 S	1.54 E	0.26
1000.	0 0	0	999.98	1.85 S	1.68 E	0.25
1100.	0 15	N 21 W	1099.98	1.65 S	1.61 E	0.25
1200.	0 0	0	1199.98	1.44 S	1.53 E	0.25
1300.	0 30	S 35 E	1299.98	1.80 S	1.78 E	0.50
1400.	0 45	S 89 E	1399.98	2.29 S	2.71 E	0.61
1500.	0 45	N 41 E	1499.97	1.78 S	3.87 E	0.63
1600.	1 0	N 60 E	1599.96	0.81 S	5.04 E	0.38
1700.	1 0	N 53 E	1699.94	0.15 N	6.49 E	0.12
1800.	1 0	N 58 E	1799.93	1.14 N	7.93 E	0.09
1900.	1 0	N 37 E	1899.91	2.31 N	9.21 E	0.36
2000.	0 45	N 46 E	1999.90	3.45 N	10.22 E	0.28
2100.	0 30	N 54 E	2099.89	4.15 N	11.06 E	0.26
2200.	0 0	0	2199.89	4.41 N	11.41 E	0.50
2300.	0 0	0	2299.89	4.41 N	11.41 E	0.00
2400.	0 0	0	2399.89	4.41 N	11.41 E	0.00
2500.	0 0	0	2499.89	4.41 N	11.41 E	0.00
2600.	0 0	0	2599.89	4.41 N	11.41 E	0.00
2700.	0 0	0	2699.89	4.41 N	11.41 E	0.00
2800.	0 0	0	2799.89	4.41 N	11.41 E	0.00
2900.	0 30	N 24 W	2899.89	4.81 N	11.23 E	0.50

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
3000.	1 0	N 17 W	2999.88	6.03 N	10.77 E	0.51
3100.	1 15	N 13 W	3099.86	7.93 N	10.27 E	0.26
3200.	1 15	N 9 W	3199.84	10.07 N	9.85 E	0.09
3300.	1 30	N 1 W	3299.81	12.46 N	9.64 E	0.31
3400.	2 0	N 6 E	3399.76	15.51 N	9.77 E	0.54
3500.	1 30	N 4 E	3499.72	18.55 N	10.04 E	0.50
3600.	2 0	N 11 E	3599.67	21.58 N	10.44 E	0.54
3700.	2 15	N 17 E	3699.60	25.17 N	11.34 E	0.33
3800.	2 15	N 10 E	3799.52	28.99 N	12.25 E	0.27
3900.	2 15	N 10 E	3899.45	32.85 N	12.93 E	0.00
4000.	2 15	N 17 E	3999.37	36.67 N	13.85 E	0.27
4100.	1 45	N 28 E	4099.31	39.89 N	15.13 E	0.63
4200.	1 30	N 36 E	4199.27	42.29 N	16.68 E	0.34
4300.	1 30	N 41 E	4299.23	44.34 N	18.31 E	0.13
4400.	1 30	N 46 E	4399.20	46.24 N	20.11 E	0.12
4500.	1 15	N 13 E	4499.17	48.30 N	21.28 E	0.82
4600.	1 45	N 48 E	4599.14	50.52 N	22.59 E	1.02
4757.	1 15	N 35 E	4756.08	53.59 N	25.30 E	0.38
4851.	1 30	N 24 E	4850.05	55.53 N	26.45 E	0.35
4945.	1 15	N 29 E	4944.03	57.53 N	27.49 E	0.28
5039.	1 30	N 20 E	5038.00	59.58 N	28.42 E	0.35
5133.	1 45	N 48 E	5131.96	61.77 N	29.90 E	0.88
5227.	1 15	N 38 E	5225.93	63.56 N	31.57 E	0.60
5321.	1 15	N 34 E	5319.91	65.22 N	32.78 E	0.09
5415.	1 30	N 54 E	5413.88	66.84 N	34.34 E	0.57
5508.	1 45	N 45 E	5506.84	68.55 N	36.34 E	0.38
5602.	1 15	N 60 E	5600.81	70.04 N	38.29 E	0.67
5696.	2 0	N 51 E	5694.77	71.55 N	40.48 E	0.84
5790.	1 45	N 39 E	5788.72	73.72 N	42.65 E	0.49
5884.	1 15	N 62 E	5882.69	75.27 N	44.54 E	0.82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
5978.	1 0	N 55 E	5976.67	76.24 N	46.11 E	0.30
6072.	1 30	N 49 E	6070.65	77.50 N	47.73 E	0.55
6166.	1 15	N 70 E	6164.62	78.64 N	49.66 E	0.59
6260.	1 30	N 68 E	6258.59	79.45 N	51.76 E	0.27
6353.	1 15	N 65 E	6351.56	80.34 N	53.81 E	0.28
6447.	1 0	N 47 E	6445.55	81.36 N	55.33 E	0.46
6541.	1 30	N 47 E	6539.52	82.76 N	56.83 E	0.53
6635.	1 45	N 78 E	6633.49	83.98 N	59.17 E	0.96
6729.	1 15	N 58 E	6727.45	84.90 N	61.44 E	0.76
6823.	1 15	N 83 E	6821.43	85.57 N	63.36 E	0.58
6917.	1 30	N 59 E	6915.40	86.30 N	65.47 E	0.66
7011.	1 0	N 50 E	7009.38	87.49 N	67.14 E	0.57
7104.	0 45	S 85 E	7102.37	87.91 N	68.46 E	0.76
7198.	0 45	N 81 E	7196.36	87.95 N	69.69 E	0.19
7292.	1 15	N 56 E	7290.35	88.53 N	71.20 E	0.69
7386.	1 0	N 48 E	7384.33	89.60 N	72.65 E	0.31
7480.	1 0	N 82 E	7478.32	90.37 N	74.12 E	0.62
7574.	1 0	N 34 E	7572.30	91.21 N	75.47 E	0.87
7668.	1 0	N 80 E	7666.29	92.08 N	76.81 E	0.83
7762.	1 15	N 49 E	7760.27	92.87 N	78.46 E	0.69
7855.	1 15	N 56 E	7853.25	94.10 N	80.06 E	0.16
7949.	1 30	N 53 E	7947.22	95.41 N	81.90 E	0.28
8043.	1 15	N 40 E	8041.19	96.96 N	83.53 E	0.42
8137.	1 15	N 38 E	8135.17	98.55 N	84.82 E	0.05
8231.	1 15	N 53 E	8229.15	99.98 N	86.28 E	0.35
8325.	0 45	N 83 E	8323.13	100.59 N	87.78 E	0.75
8419.	1 30	N 76 E	8417.12	100.93 N	89.60 E	0.81
8513.	1 0	N 52 E	8511.09	101.82 N	91.43 E	0.76
8606.	1 15	N 54 E	8604.08	102.92 N	92.89 E	0.27
8700.	1 30	N 56 E	8698.05	104.21 N	94.73 E	0.27

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOS LEG SEVERITY DG/100FT
8794.	1 15	N 70 E	8792.02	105.23 N	96.74 E	0.44
8888.	1 0	N 89 E	8886.00	105.57 N	98.54 E	0.47
8982.	1 15	N 77 E	8979.98	105.79 N	100.37 E	0.36
9076.	1 15	N 89 E	9073.96	106.04 N	102.41 E	0.28
9170.	1 15	N 60 E	9167.94	106.59 N	104.36 E	0.67
9264.	1 0	N 71 E	9261.92	107.35 N	106.04 E	0.35
9358.	1 0	N 67 E	9355.91	107.94 N	107.57 E	0.07
9451.	1 0	N 74 E	9448.89	108.43 N	109.10 E	0.13
9545.	1 0	N 80 E	9542.88	108.85 N	110.70 E	0.11
9639.	1 15	N 84 E	9636.86	109.11 N	112.52 E	0.28
9733.	1 30	S 86 E	9730.83	109.14 N	114.78 E	0.37
9827.	1 0	S 59 E	9824.81	108.53 N	116.71 E	0.81
9921.	1 0	S 78 E	9918.79	107.94 N	118.23 E	0.35
10015.	1 15	S 89 E	10012.78	107.73 N	120.06 E	0.35
10109.	1 15	S 65 E	10106.75	107.27 N	122.05 E	0.55
10202.	1 15	S 53 E	10199.73	106.75 N	124.85 E	0.47
10296.	1 0	N 87 E	10293.71	106.75 N	125.85 E	0.30
10390.	1 0	S 57 E	10387.70	106.33 N	127.41 E	0.66
10484.	0 45	N 72 E	10481.69	106.15 N	128.78 E	0.84
10578.	1 0	S 66 E	10575.68	106.08 N	130.18 E	0.71
10672.	1 0	S 70 E	10669.66	105.46 N	131.70 E	0.07
10766.	0 45	S 61 E	10763.65	104.87 N	133.01 E	0.30
10860.	0 45	S 38 E	10857.64	104.07 N	133.94 E	0.32
10953.	0 30	N 1 E	10950.64	104.32 N	134.67 E	1.27
11047.	0 15	N 53 W	11044.63	104.85 N	134.41 E	0.43
11141.	1 0	N 44 W	11138.63	105.53 N	133.65 E	0.80
11235.	0 45	N 37 W	11232.62	106.62 N	132.71 E	0.29
11289.	2 0	S 9 W	11286.60	106.38 N	131.73 E	4.77
11383.	3 45	S 19 E	11380.48	101.73 N	132.13 E	2.33
11477.	3 45	S 40 E	11474.28	96.40 N	135.14 E	1.45

HEYCO
 BETENBOUGH WELL NO. 1
 LEA COUNTY, NEW MEXICO

COMPUTATION
 TIME DATE
 01:28:39 00--00

PAGE NO. 5

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOG LEG SEVERITY DG/100FT
11572.	5 0	S 57 E	11569.00	91.62 N	140.55 E	1.38
11666.	4 0	S 54 E	11662.71	87.44 N	146.63 E	1.09
11760.	4 0	S 51 E	11756.48	83.45 N	151.83 E	0.22
11854.	4 0	S 47 E	11850.25	79.15 N	156.78 E	0.30
11949.	4 0	S 44 E	11945.02	74.51 N	161.50 E	0.22
12043.	4 0	S 45 E	12038.79	69.83 N	166.10 E	0.07
12137.	3 0	S 45 E	12132.62	65.77 N	170.16 E	1.06
12231.	3 0	S 36 E	12226.49	62.04 N	173.35 E	0.50
12325.	2 15	S 36 E	12320.39	58.55 N	175.88 E	0.80
12420.	2 15	S 38 E	12415.31	55.57 N	178.12 E	0.08
12514.	2 15	S 29 E	12509.24	52.50 N	180.16 E	0.38
12608.	2 0	S 25 E	12603.18	49.40 N	181.74 E	0.31
12702.	2 0	S 17 E	12697.12	46.33 N	182.91 E	0.30
12797.	3 0	S 5 W	12792.03	42.24 N	183.35 E	1.44
12891.	3 30	S 8 W	12885.88	36.94 N	182.74 E	0.56
12985.	3 15	S 6 W	12979.71	31.45 N	181.87 E	0.27
13079.	3 0	S 1 W	13073.57	26.34 N	181.75 E	0.39
13173.	2 30	S 8 W	13167.46	21.85 N	181.40 E	0.64
13268.	2 15	S 5 W	13262.38	17.93 N	180.96 E	0.29
13362.	2 15	S 23 W	13356.31	14.37 N	180.07 E	0.75
13456.	1 45	S 18 W	13450.25	11.30 N	178.92 E	0.56
13550.	1 30	S 11 W	13544.21	8.72 N	178.25 E	0.34
13645.	2 0	S 25 W	13639.17	5.97 N	177.36 E	0.69

FINAL CLOSURE - DIRECTION: N 88 DEGS 4 MINS E
 DISTANCE: 177.46 FEET



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 16, 19 80 thru April 16, 19 80 conduct or supervise the taking of a Gyroscopic Multiple Shot survey by the method of magnetic orientation from a depth of 0 feet to 4600 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and practices as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Directional Drillers/Sub Surface Surveyors/Instrument & Tool Rentals - Eastman Whipstock



P. O. Box 5577/Midland, Texas 79701/(915) 563-0511
TWX 910-881-5066/Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Richard Shimshack, in the employ of Eastman Whipstock, Inc., did on the days of April 17, 19 80 thru April 17, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 4600 feet to 11235 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Richard Shimshack
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Richard Shimshack, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales Worldwide



P. O. Box 5577 / Midland, Texas 79701 / (915) 563-0511
TWX 910-881-5066 / Cable: EASTCO

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Tim Stephens, in the employ of Eastman Whipstock, Inc., did on the days of May 18, 19 80 thru May 18, 19 80 conduct or supervise the taking of a Magnetic Multiple Shot survey by the method of magnetic orientation from a depth of 11235 feet to 13645 feet, with recordings of inclination and direction being obtained at approximate intervals of 94 feet.

This survey was conducted at the request of HEYCO for their Betenbough Well No. 1, Lea County, State of New Mexico, in the Field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Tim Stephens
Directional / Supervisor / Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Larry Massey

Before me, the undersigned authority, on this day personally appeared Tim Stephens, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 19th day of May, 19 80.

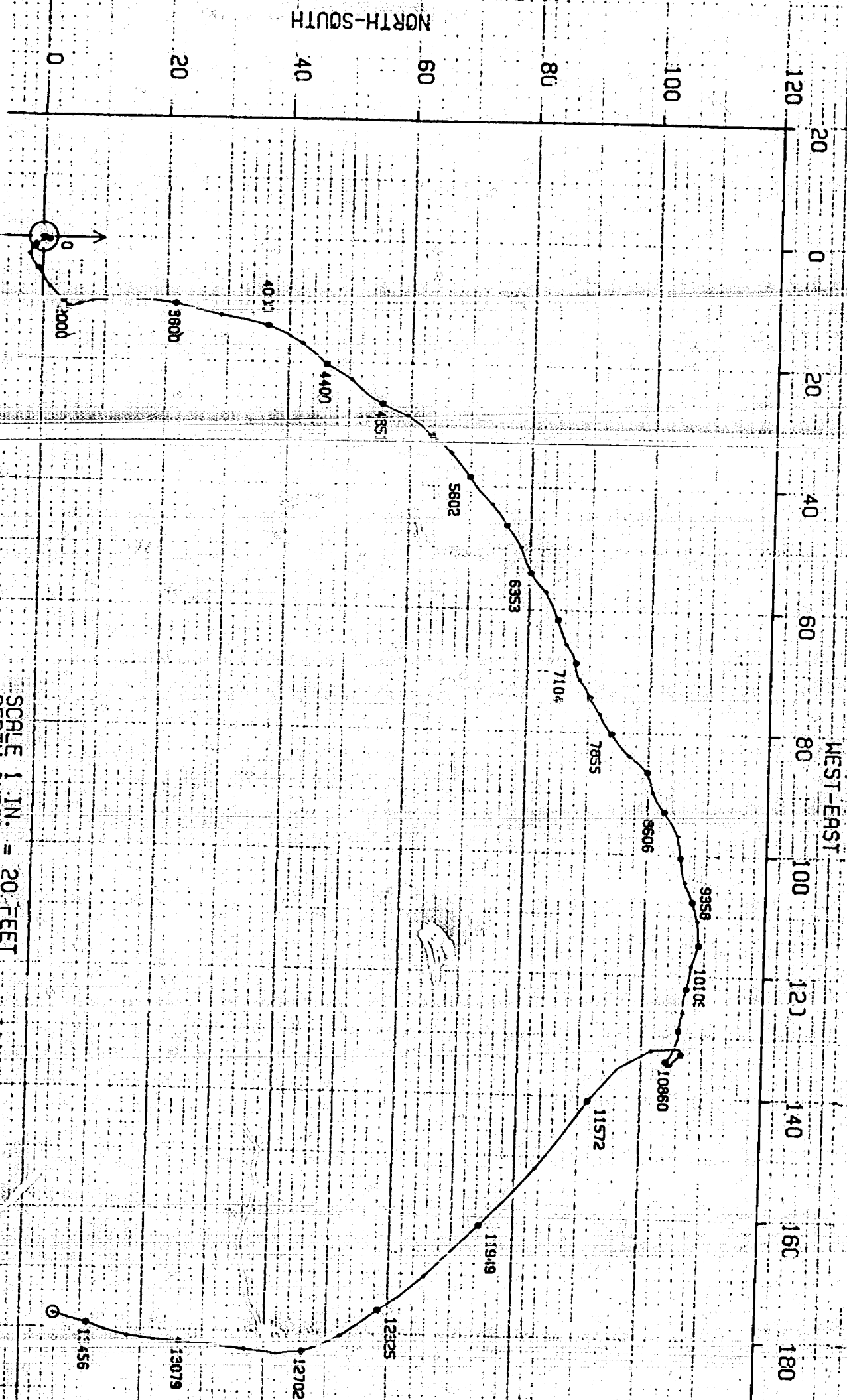
Anna M. Smith
Notary Public in and for the County of
Midland, Texas
My commission expires 5-24-80

Direct and Indirect Sub-Surface Surveyors / Instrument & Tool Rentals / Sales - Worldwide

HE YCO
BETENBOUGH ME L NO 1
LER COUNTY, NEW MEXICO

EASTMAN WHIPS COCK, INC.

FINAL STATION:
DEPTH 13645 MD 13639.16 MD
NORTH 5.96 EAST 177.35
CLOSURE 177.45 N 88 4 25 E



SCALE 1 IN. = 20 FEET
DEPTH INDICATOR: MD

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
9 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Com-
pany for amendment of Order No. P-6303,
Lea County, New Mexico

CASE
6954

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

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7449

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MR. NUTTER: Call Case Number 6954.

MR. PADILLA: Application of Harvey E. Yates Company for amendment of Order No. R-6303, Lea County, New Mexico.

MR. NUTTER: Applicant in this case requests continuance.

We will continue Case Number 6954 to the Examiner Hearing scheduled to be held at this same place at 9:00 o'clock a. m. July 23rd, 1980.

(Hearing concluded.)

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-J
Santa Fe, New Mexico 87501
Phone (505) 455-7409

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 C.S.R.

SALLY W. BOYD, C.S.R.

Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

I do hereby certify that the foregoing is a complete and correct transcript of the proceedings in the Exoneration Case No. 6454 heard by the Oil Conservation Division on 7/9 1980.

[Signature], Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
9 July 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Com-) CASE
pany for amendment of Order No. R-6303,) 6954
Lea County, New Mexico.)

REPORT: LARRY S. HULLER

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

SALLY W. BOYLE, C.S.R.

Rt. 1 Box 193
Santa Fe, New Mexico 87501
Phone (505) 452-109

1 MR. NUTTER: Call Case Number 6954.

2 MR. PADILLA: Application of Harvey E.

3 Yates Company for amendment of Order No. R-6303, Lea County,
4 New Mexico.

5 MR. NUTTER: Applicant in this case re-
6 quests continuance.

7 We will continue Case Number 6954 to the
8 Examiner Hearing scheduled to be held at this same place at
9 9:00 o'clock a. m. July 23rd, 1980.

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11 (Hearing concluded.)
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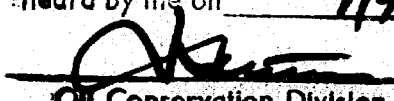
SALLY W. CYD, C.S.R.

Rt. 1 E. 2nd 192-B
Santa Fe, N. M. 87501
Phone (505) 455-7409

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 Conserva-
tion 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, C.S.R.
Rt. 1 Box 153-11
Santa Fe, N.M. 87501
Phone (505) 435-7109

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 6954
heard by me on 7/9 1980.
 , Examiner
Oil Conservation Division

CASE 6982: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Aminoil USA to appear and show cause why its 1980 Plan of Operation/Development for its Willow Lake Unit Area, Eddy County, New Mexico, should not be disapproved.

CASE 6901: (Continued from June 25, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Mississippian formations underlying the E/2 of Section 19, Township 14 South, Range 36 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6954: (Continued from July 9, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for amendment of Order No. R-6303, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6303 which authorized the directional drilling of a well, the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East. Applicant seeks approval for the bottom hole location of the well at a point 654 feet from the North line and 2158 feet from the West line of said Section 32.

CASE 6921: (Continued from July 9, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Mississippian formations underlying the S/2 of Section 33, Township 13 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and 990 feet from the East line of Section 33. 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 6983: Application of Harvey E. Yates Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Mississippian formation for its Betenbough Well No. 1 located in Unit C of Section 32, Township 13 South, Range 36 East.

CASE 6984: Application of Harvey E. Yates Company for designation of a tight formation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Mississippian formation underlying Townships 13, 14, and 15 South, Ranges 35 and 36 East, containing 138,240 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

CASE 6929: (Readvertised)

Application of Consolidated Oil & Gas, Inc. for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blanco Mesaverde and Basin-Dakota production in the wellbore of its NCRA Well No. 1-E located in Unit G of Section 22, Township 26 North, Range 7 West, by using the Dakota gas for gas lift of Mesaverde liquids after metering on the surface.

CASE 6985: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order extending certain pools in McKinley, Rio Arriba, San Juan, and Sandoval Counties, New Mexico:

(a) EXTEND the Aztec-Farmington Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 11 WEST, NMPM
Section 18: SE/4

(b) EXTEND the Aztec-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM
Section 34: W/2

(c) EXTEND the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM
Section 1: SW/4

TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM
Section 35: S/2

Dockets Nos. 22-80 and 23-80 are tentatively set for July 23 and August 6, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 9, 1980

**9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO**

The following cases will be heard before Daniel S. Mutter, Examiner, or Richard L. Stamets, Alternate Examiner:

CASE 6953: Application of Gulf Oil Corporation for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a previously approved 240-acre non-standard gas proration unit comprising the NE/4 and E/2 NW/4 of Section 17, Township 20 South, Range 37 East, Eumont Gas Pool, to its Theodore Anderson Well No. 4 located in Unit B, and its No. 7, at an unorthodox location 1980 feet from the North line and 660 feet from the East line of Section 17.

CASE 6954: Application of Harvey E. Yates Company for amendment of Order No. R-6303, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6303 which authorized the directional drilling of a well, the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East. Applicant seeks approval for the bottom hole location of the well at a point 654 feet from the North line and 2158 feet from the West line of said Section 32.

CASE 6921: (Readvertised)

Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Mississippian formations underlying the S/2 of Section 33, Township 13 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and 990 feet from the East line of Section 33. 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 6932: (Continued from June 25, 1980, Examiner Hearing)

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 location of its State "JM" Well No. 2, a Morrow test to be drilled 660 feet from the South and East lines of Section 25, Township 18 South, Range 24 East, the S/2 of said Section 25 to be dedicated to the well.

CASE 6934: (Continued from June 25, 1980, Examiner Hearing)

Application of Coronado Exploration Corporation for three compulsory poolings, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying three 40-acre proration units, being the NW/4 SE/4 of Section 6, the NE/4 SE/4 of Section 28, and the SW/4 NW/4 of Section 33, all in Township 11 South, Range 28 East, each 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.

CASE 6955: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Tapacito-Pictured Cliffs and Blanco Mesaverde production in the wellbore of its San Juan 27-S Unit Well No. 42 located in Unit M of Section 22, Township 27 North, Range 5 West.

CASE 6956: Application of Amoco Production Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State "CH" Well No. 1 located in Unit F of Section 21, Township 16 South, Range 35 East.

CASE 6957: Application of Amoco Production Company for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for its State HK Com Well No. 1 located in Unit L of Section 6, Township 24 South, Range 25 East.

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

June 26, 1980

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

RECEIVED

JUN 27 1980

**OIL CONSERVATION DIVISION
SANTA FE**

Case 6954

Re: Case No. 6633
Application to Amend
Order No. 6303

Gentlemen:

Enclosed for filing is an original and two copies of the above referenced Application. This matter has been set for examiner hearing on the July 9, 1980 Docket.

Sincerely yours,

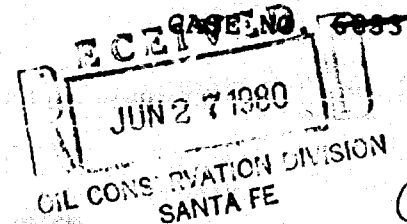
Robert H. Strand
Attorney

RHS/cj
Enclosures

BEFORE THE OIL CONSERVATION DIVISION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE
APPLICATION OF
HARVEY E. YATES COMPANY
TO AMEND ORDER NO. R-6303

APPLICATION



COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. On March 25, 1980, the Division entered Order No. R-6303 in Case No. 6833 authorizing applicant to re-enter the plugged and abandoned Superior Betenbough No. 1 Well the surface location of which is 660 feet from the North Line and 1980 feet from the West Line of Section 32, Township 13 South, Range 36 East, N.M.P.M., Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 660 feet from the North Line and 1830 feet from the West Line of said Section 32 at a depth of approximately 13,900 feet in the Austin Mississippian pool.
2. Said well has been re-entered and drilled pursuant to Order No. 6303, and was bottomed at a location 654 feet from the North Line and 2158 feet from the West Line of said Section 32 at a depth of 13,698 feet in the Austin Mississippian pool. Said well was subsequently plugged back to 12,918 feet and completed as a gas well in the Atoka formation.
3. Order No. R-6303 should be amended to approve the directional drilling operations described above.
4. Approval of this application will prevent the excessive risk and economic loss caused by drilling of unnecessary wells, and will otherwise promote conservation, prevent waste and protect correlative rights.

WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner, and that notice of said hearing be given as required by law.
- B. That upon such hearing, the Division enter its order amending Order No. R-6303 to approve the directional drilling operations as described above.
- C. For such further relief as the Division deems just and proper.

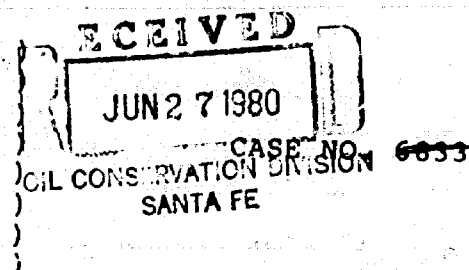
Dated this 26th day of June, 1980.

HARVEY E. YATES COMPANY

By: 
Robert H. Strand
Attorney for Applicant
P. O. Box 1933
Roswell, New Mexico 88201

BEFORE THE OIL CONSERVATION DIVISION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE
APPLICATION OF
HARVEY E. YATES COMPANY
TO AMEND ORDER NO. R-6303



Case 6954

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. On March 25, 1980, the Division entered Order No. R-6303 in Case No. 6833 authorizing applicant to re-enter the plugged and abandoned Superior Betenbough No. 1 Well the surface location of which is 660 feet from the North Line and 1980 feet from the West Line of Section 32, Township 13 South, Range 36 East, N.M.P.M., Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 660 feet from the North Line and 1830 feet from the West Line of said Section 32 at a depth of approximately 13,900 feet in the Austin Mississippian pool.
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WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner, and that notice of said hearing be given as required by law.
- B. That upon such hearing, the Division enter its order amending Order No. R-6303 to approve the directional drilling operations as described above.
- C. For such further relief as the Division deems just and proper.

Dated this 26th day of June, 1980.

HARVEY E. YATES COMPANY

By:


Robert H. Strand

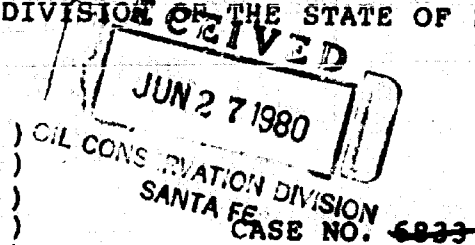
Attorney for Applicant

P. O. Box 1933

Roswell, New Mexico 88201

BEFORE THE OIL CONSERVATION DIVISION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE
APPLICATION OF
HARVEY E. YATES COMPANY
TO AMEND ORDER NO. R-6303



Case 6954

APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

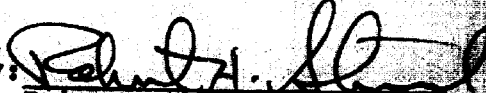
1. On March 25, 1980, the Division entered Order No. R-6303 in Case No. 6833 authorizing applicant to re-enter the plugged and abandoned Superior Betenbough No. 1 well the surface location of which is 660 feet from the North Line and 1980 feet from the West Line of Section 32, Township 13 South, Range 36 East, N.M.P.M., Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 660 feet from the North Line and 1830 feet from the West Line of said Section 32 at a depth of approximately 13,900 feet in the Austin Mississippian pool.
2. Said well has been re-entered and drilled pursuant to Order No. 6303, and was bottomed at a location 654 feet from the North Line and 2158 feet from the West Line of said Section 32 at a depth of 13,698 feet in the Austin Mississippian pool. Said well was subsequently plugged back to 12,918 feet and completed as a gas well in the Atoka formation.
3. Order No. R-6303 should be amended to approve the directional drilling operations described above.
4. Approval of this application will prevent the excessive risk and economic loss caused by drilling of unnecessary wells, and will otherwise promote conservation, prevent waste and protect correlative rights.

WHEREFORE, Applicant prays:

- A. That this application be set for hearing before an examiner, and that notice of said hearing be given as required by law.
- B. That upon such hearing, the Division enter its order amending Order No. R-6303 to approve the directional drilling operations as described above.
- C. For such further relief as the Division deems just and proper.

Dated this 26th day of June, 1980.

HARVEY E. YATES COMPANY

By: 

Robert H. Strand

Attorney for Applicant

P. O. Box 1933

ROSWELL, New Mexico 88201

ROUGH

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. 6954

Order No. R-6428

APPLICATION OF HARVEY E. YATES
COMPANY FOR AMENDMENT OF ORDER
NO. R-6303, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 23
1980, at Santa Fe, New Mexico, before Examiner Richard L. Stamey

NOW, on this day of July, 1980, 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 in this case, Harvey E. Yates Company,
received authority under Division Order No. R-6303, ^{entered March 28, 1980} to directionally drill
No. 1, the surface location of which is 660 feet from the North
line and 1980 feet from the West line of Section 32, Township 13
South, Range 36 East, Lea County, New Mexico, in such a manner
as to bottom it within 100 feet of a point 660 feet from the
North line and 1830 feet from the West line of said Section 32
in the Austin-Mississippian Pool.

(3) That upon completion of said directional drilling the bottom hole location was determined to be 654 feet from the North line and 2158 feet from the West line of said Section 32 at a measured depth of 13645 feet.

(4) That the applicant now seeks approval of the amendment of said Order No. ~~R630~~ R6303 to provide for approval of the actual bottom hole location obtained.

(5) That no offset operator or any other party appeared and objected to the proposed order amendment.

(6) That Division Order No. R6303 should be amended as requested in this case.

IT IS THEREFORE ORDERED:

(1) That paragraph one of Order (1) of Division Order No. R-6303, entered March 25, 1980, is hereby amended to read in its entirety as follows:

(1) That the applicant, Harvey E. Yates Company, is hereby authorized to re-enter the Superior Betenbough Well No. 1, a plugged and abandoned well the surface location of which is 660 feet from the North line and 1980 feet from the West line of Section 32, Township 13 South, Range 36 East, NMPM, Lea County, New Mexico, clean it out to a depth of approximately 12,000 feet, and to then directionally drill said well in such a manner as to bottom it within 100 feet of a point 654 feet from the North line and 2158 feet from the West line of said Section 32 at a depth of approximately ~~13,645~~ feet in the Austin-Mississippian Pool. "13,645"

(2) Jurisdiction