



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

July 24, 1997

Amoco Production Company  
San Juan Business Unit  
P. O. Box 800  
Denver, Colorado 80201  
Attention: Pamela W. Staley

*Administrative Order DD-193*

Dear Ms. Staley:

Reference is made to Amoco Production Company's application dated June 5, 1997 for authorization to recomplete the existing Fields "A" Well No. 1 (API No. 30-045-11271) by side tracking off of the vertical portion of the wellbore and drill a high angle slant hole to a predetermined bottomhole location in order to further develop the Blanco-Mesaverde Pool underlying its existing 320-acre standard gas spacing and proration unit ("GPU") comprising the N/2 of Section 25, Township 32 North, Range 11 West, NMPM, San Juan County, New Mexico.

**The Division Director Finds That:**

- (1) The application has been duly filed under the provisions of Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11274 on June 13, 1995;
- (2) By Order No. R-8170, as amended, the Division promulgated the "*General Rules for the Prorated Gas Pools of New Mexico/Special Rules and Regulations for the Blanco-Mesaverde Pool*," which includes provisions for 320-acre gas spacing and proration units and well location requirements whereby the initial well drilled on a GPU shall be located no closer than 790 feet to the outer boundary of the quarter section on which the well is located and not closer than 130 feet to any quarter-quarter section line or subdivision inner boundary and the infill well drilled on an existing GPU shall be in the quarter section not containing a Mesaverde gas well and shall be located with respect to the restrictions as previously described;
- (3) The Fields "A" Well No. 1, located at a standard gas well location 990 feet from the North and East lines (Unit A) of said Section 25, was originally drilled and completed in 1953 as an initial Blanco-Mesaverde gas well, and was assigned the above-described 320-acre GPU;
- (4) Within this 320-acre GPU Amoco is also producing Blanco-Mesaverde gas from its Fields

"A" Well No. 1-A (API No. 30-045-22398), located at a standard infill gas well location 980 feet from the North line and 1460 feet from the West line (Unit C) of said Section 25;

- (5) A high angle slant hole drilled off of the existing vertical wellbore in the Fields "A" Well No. 1 as proposed should provide Amoco a better opportunity to encounter the naturally occurring fracture system in the Mesaverde formation, which should result in a higher production rate and an increased ultimate recovery of gas from this well;
- (6) The applicant/operator proposes to kick-off from vertical at a depth of approximately 4,875 feet by milling a window in the existing 4 1/2-inch replacement production casing string, drill in a southeasterly direction, build to an angle of approximately 45 degrees in order to bottom back into the Blanco-Mesaverde Pool, with total horizontal displacement of said wellbore to be approximately 240 feet;
- (7) The applicable drilling window or "producing area" for said wellbore should include that area within the NE/4 of said Section 25 that is no closer than 790 feet to any quarter section line; and,
- (8) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

**IT IS THEREFORE ORDERED THAT:**

(1) The applicant, Amoco Production Company, is hereby authorized to recomplete its existing Fields "A" Well No. 1 (API No. 30-045-11271), located at a standard gas well location 990 feet from the North and East lines (Unit A) of Section 25, Township 32 North, Range 11 West, NMPM, San Juan County, New Mexico, by milling a window in the existing 4 1/2-inch replacement production casing string at a depth of approximately 4,875 feet, kick-off from vertical in a southeasterly direction, build to an angle of approximately 45 degrees in order to bottom back into the Blanco-Mesaverde Pool (total horizontal displacement of said wellbore to be approximately 240 feet) within a drilling window or "producing area" comprising the NE/4 equivalent of said Section 25 that is no closer than 790 feet to any quarter section line.

**PROVIDED HOWEVER THAT** prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

**PROVIDED FURTHER THAT** during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall

further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) Blanco-Mesaverde gas production from both the existing Fields "A" Well No. 1-A (API No. 30-045-22398), located at a standard infill gas well location 980 feet from the North line and 1460 feet from the West line (Unit C) of said Section 25, and Fields "A" Well No. 1, as described above, shall be attributed to the existing 320-acre standard gas spacing and proration unit ("GPU") comprising the N/2 of said Section 25.

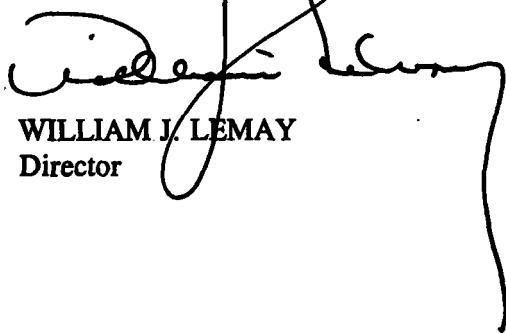
(4) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Order No. R-8170, as amended.

(5) 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.

(6) 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

  
WILLIAM J. LEMAY  
Director

S E A L

WJL/MES/kv

cc: Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington

## **Mike Stogner**

---

**From:** Frank Chavez  
**To:** Mike Stogner  
**Subject:** RE: Amoco Dir. Drlg. Ords.  
**Date:** Monday, July 28, 1997 9:09AM

These look OK.

-----  
**From:** Mike Stogner  
**Sent:** Wednesday, July 23, 1997 10:05 AM  
**To:** Kathy Valdes  
**Cc:** Ernie Busch; Frank Chavez  
**Subject:** Amoco Dir. Drlg. Ords.

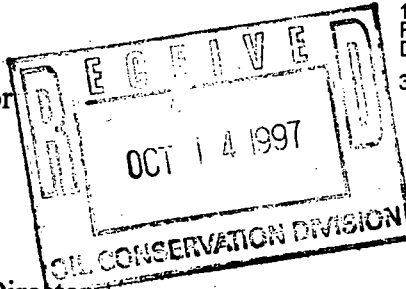
Draft Administrative DD Orders for Amoco's:

- (1) Fields "A" #1 (30-045-11271) in the N/2 of Sec. 25-T32N-R11W, Blanco-Mesaverde Pool:
- (2) Wallace Gas Com #1 (30-045-10150) in the N/2 of Sec. 35-T31N-R11W, Blanco-Mesaverde Pool:
- (3) Schwerdtfeger "LS" #2-A (30-045-22425) in the N/2 equivalent of Sec. 27-T31N-R9W, Blanco-Mesaverde Pool:
- (4) Pritchard "A" #2-A (30-045-22020) in the E/2 equivalent) of Sec. 1-T30N-R9W, Blanco-mesaverde Pool:
- (5) Florance #1-R (30--045-25307) in the W/2 of Sec. 11-T30N-R9W, Blanco-Mesaverde Pool:



October 3, 1997

Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410



Amoco Production Company  
San Juan Business Unit

1670 Broadway  
Post Office Box 800  
Denver, Colorado 80201  
303-830-4040

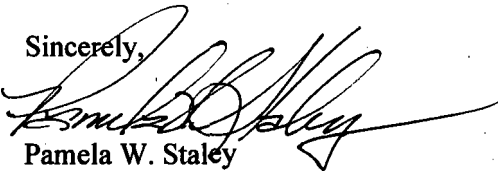
Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P. O. Box 6429  
Santa Fe, NM 87505

DD-193

**Additional Data**  
**Fields A #1**  
**Unit A Section 25-T32N-R11W**  
**Blanco Mesaverde Pool**  
**San Juan County, New Mexico**

As per the requirements of NMOCD Administrative Order No. DD-193, I am providing a copy enclosed herein of the wellbore surveys taken during operations on this well to both the Aztec District Office and the Santa Fe Office of the Division. Should you have questions, please do not hesitate to call me at (303)830-5344.

Sincerely,

  
Pamela W. Staley

Enclosure

# **SPERRY-SUN** **DRILLING SERVICES**

A DRESSER INDUSTRIES, INC. COMPANY

**Amoco Production Co.**  
**New Mexico**  
**Re-Entry Wells**  
**Sec 25-T32N-R11W**  
**Fields A 1 - Electro Magnetic Surveys - GeoService**

## **SURVEY REPORT**

**22 September, 1997**

**Survey Ref: svy1991**

# Sperry-Sun Drilling Services



## Survey Report for Fields A 1 - Electro Magnetic Surveys - GeoService

Amoco Production Co.  
New Mexico

Re-Entry Wells  
Sec 25-T32N-R11W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
3144.00	0.000	0.000	3144.00	0.00 N	0.00 E	0.00	0.000
3190.00	2.130	328.820	3189.89	0.73 N	0.44 W	-0.83	4.630
3283.00	2.940	303.200	3282.90	3.52 N	3.33 W	-4.84	1.477
3376.00	4.130	301.450	3375.72	6.57 N	8.19 W	-10.43	1.285
3467.00	5.500	300.950	3466.40	10.52 N	14.72 W	-17.85	1.506
3562.00	7.310	302.700	3560.80	16.13 N	23.71 W	-28.17	1.916
3656.00	9.060	307.450	3653.84	23.86 N	34.62 W	-41.35	1.994
3750.00	8.880	313.450	3746.69	33.35 N	45.76 W	-55.94	1.013
3841.00	8.130	318.700	3836.69	43.02 N	55.11 W	-69.39	1.185
3935.00	7.560	322.570	3929.81	52.92 N	63.26 W	-82.15	0.826
4028.00	8.810	325.700	4021.87	63.66 N	70.99 W	-95.21	1.426
4123.00	7.750	330.200	4115.88	75.23 N	78.27 W	-108.54	1.307
4215.00	6.630	332.320	4207.15	85.32 N	83.82 W	-119.60	1.251
4308.00	6.560	332.000	4299.54	94.76 N	88.81 W	-129.80	0.085
4400.00	5.560	328.820	4391.02	103.21 N	93.58 W	-139.16	1.146
4491.00	4.940	336.000	4481.64	110.57 N	97.46 W	-147.10	0.991
4586.00	4.560	334.950	4576.31	117.72 N	100.72 W	-154.47	0.410
4680.00	3.940	328.700	4670.05	123.87 N	103.98 W	-161.12	0.822
4741.00	3.810	333.320	4730.91	127.47 N	105.98 W	-165.08	0.354
4772.00	3.810	333.720	4761.85	129.31 N	106.90 W	-167.03	0.386
4804.00	4.060	337.070	4793.77	131.31 N	107.81 W	-169.09	1.081
4835.00	3.060	358.320	4824.71	133.15 N	108.26 W	-170.70	5.288
4866.00	1.900	72.200	4856.69	134.13 N	107.80 W	-171.07	10.068
4896.00	4.440	118.900	4885.64	133.72 N	106.31 W	-169.73	11.425
4926.00	6.440	125.900	4915.51	132.18 N	103.93 W	-166.95	7.012
4958.00	8.810	134.100	4947.22	129.42 N	100.71 W	-162.73	8.131
4989.00	14.200	123.000	4977.59	125.69 N	95.82 W	-158.63	18.719
5019.00	18.300	121.700	5006.39	121.21 N	88.72 W	-148.44	13.720
5051.00	22.810	122.690	5036.34	115.22 N	79.22 W	-137.49	14.135
5081.00	24.810	130.600	5063.80	107.98 N	69.54 W	-125.53	12.546
5143.00	25.810	144.200	5119.89	88.55 N	51.76 W	-99.21	9.496
5174.00	25.690	139.320	5147.82	77.98 N	43.43 W	-85.85	6.848
5204.00	28.880	139.070	5174.48	67.57 N	34.44 W	-72.13	10.640
5235.00	30.690	135.820	5201.38	56.24 N	24.02 W	-56.75	7.822
5266.00	35.280	136.070	5227.38	44.11 N	12.29 W	-39.88	14.813
5297.00	38.580	136.200	5252.16	30.89 N	0.61 E	-21.27	10.584
5327.00	42.800	136.700	5274.90	16.52 N	14.08 E	-1.72	14.175
5389.00	47.600	137.500	5318.58	15.71 S	44.01 E	42.23	7.796
5450.00	46.400	137.700	5360.18	48.65 S	74.09 E	86.79	1.982
5512.00	45.100	139.100	5403.44	81.86 S	103.58 E	131.12	2.648
5573.00	43.900	139.600	5446.95	114.29 S	131.43 E	173.75	2.049
5603.00	43.100	140.100	5488.71	130.08 S	144.75 E	194.33	2.903

Continued...

# Sperry-Sun Drilling Services

**Survey Report for Fields A 1 - Electro Magnetic Surveys - GeoService**



**Amoco Production Co.  
New Mexico**

**Re-Entry Wells  
Sec 25-T32N-R11W**

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.  
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Well and calculated along an Azimuth of 135.000° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 5603.00ft,  
The Bottom Hole Displacement is 194.61ft, in the Direction of 131.945° (True).



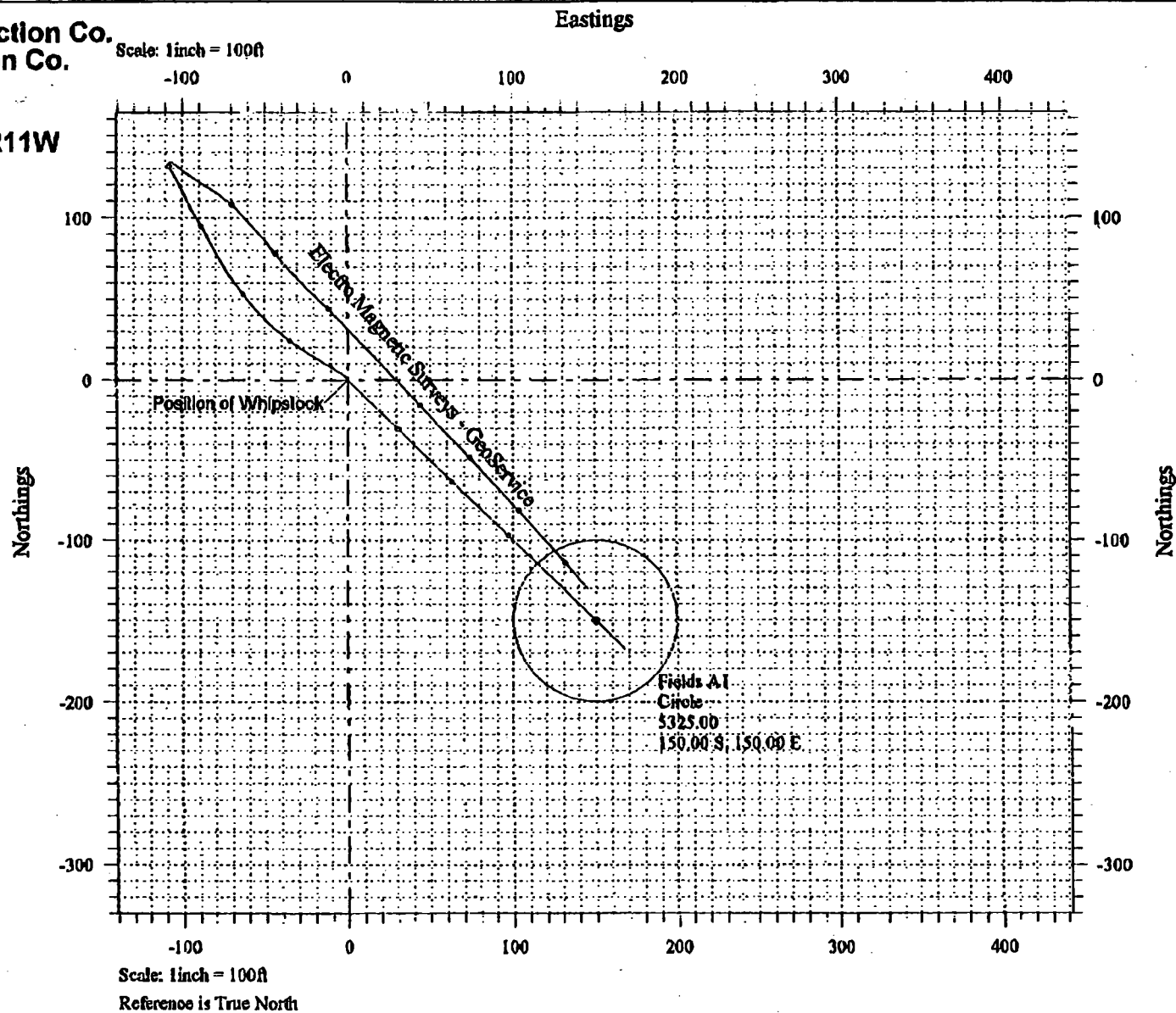
**sperry-sun**  
**DRILLING SERVICE**  
A SERVICE COMPANY

## Well: Fields A 1

**DrillQuest**

Customer: Amoco Production Co.  
 Folder: Amoco Production Co.  
 Field: New Mexico  
 Project: Re-Entry Wells  
 Structure: Sec 25-T32N-R11W  
 Well: Fields A 1

Scale: 1 inch = 100ft



Easting

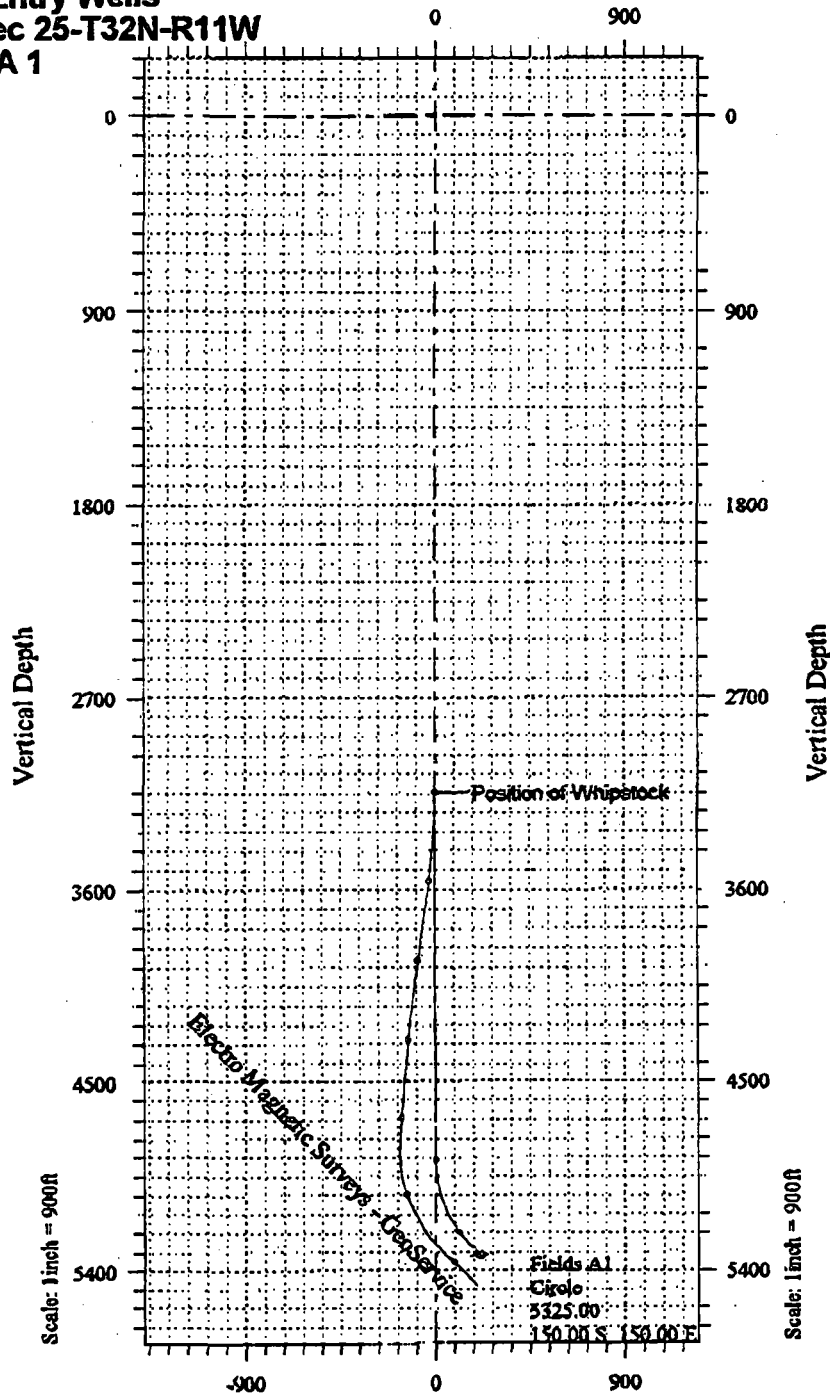
Prepared:

Checked:

Approved:

**SPERRY-SUN**  
DRILLING SERVICES**Well: Fields A 1****DrillQuest**

**Customer: Amoco Production Co.** Vertical Section  
**Folder: Amoco Production Co.**  
**Field: New Mexico**  
**Project: Re-Entry Wells**  
**Structure: Sec 25-T32N-R11W**  
**Well: Fields A 1**



Scale: 1 inch = 900 ft

Section Azimuth: 135.000 (True North)

Vertical Section

Prepared:

Checked:

Approved:

DD AMOC.13

July 23, 1997

Rec: 6-11-97

Susp: 7-1-97

Released: 7-23-97

~~Amoco Production Company~~  
~~Southern Rockies Business Unit~~  
P. O. Box 800  
Denver, Colorado 80201

San Juan

Attention: Pamela W. Staley

Administrative Order DD-193\*\*\*\*\*

Dear Ms. Staley:

Reference is made to Amoco Production Company's application dated June 5, 1997 for authorization to recomplete the existing Fields "A" Well No. 1 (API No. 30-045-11271) by side tracking off of the vertical portion of the wellbore and drill a high angle slant hole to a pre-determined bottomhole location in order to further develop the Blanco-Mesaverde Pool underlying its existing 320-acre standard gas spacing and proration unit ("GPU") comprising the N/2 of Section 25, Township 32 North, Range 11 West, NMPM, San Juan County, New Mexico.

**The Division Director Finds That:**

- (1) The application has been duly filed under the provisions of Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11274 on June 13, 1995;
- (2) By Order No. R-8170, as amended, the Division promulgated the "General Rules For The Prorated Gas Pools of New Mexico/Special Rules and Regulations For The Blanco-Mesaverde Pool", which includes provisions for 320-acre gas spacing and proration units and well location requirements whereby the initial well drilled on a GPU shall be located ~~be~~ no closer than 790 feet to the outer boundary of the quarter section on which the well is located and not closer than 130 feet to any quarter-quarter section line or subdivision inner boundary and the infill well drilled on an existing GPU shall be in the quarter section not containing a Mesaverde gas well and shall be located with respect to the restrictions as previously described;
- (3) The Fields "A" Well No. 1, located at a standard gas well location 990 feet from the North and East lines (Unit A) of said Section 25, was originally drilled and completed in 1953 as an initial Blanco-Mesaverde gas well, and was assigned the above-described 320-acre GPU;

- (4) Within this 320-acre GPU Amoco is also producing Blanco-Mesaverde gas from its Fields "A" Well No. 1-A (API No. 30-045-22398), located at a standard infill gas well location 980 feet from the North line and 1460 feet from the West line (Unit C) of said Section 25;
- (5) A high angle slant hole drilled off of the existing vertical wellbore in the Fields "A" Well No. 1 as proposed should provide Amoco a better opportunity to encounter the naturally occurring fracture system in the Mesaverde formation, which should result in a higher production rate and an increased ultimate recovery of gas from this well;
- (6) The applicant/operator proposes to kick-off from vertical at a depth of approximately 4,875 feet by milling a window in the existing 4 1/2-inch replacement production casing string, drill in a southeasterly direction, build to an angle of approximately 45 degrees in order to bottom back into the Blanco-Mesaverde Pool, with total horizontal displacement of said wellbore to be approximately 240 feet;
- (7) The applicable drilling window or "producing area" for said wellbore should include that area within the NE/4 of said Section 25 that is no closer than 790 feet to any quarter section line; and,
- (8) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

**IT IS THEREFORE ORDERED THAT:**

(1) The applicant, Amoco Production Company, is hereby authorized to recomplete its existing Fields "A" Well No. 1 (API No. 30-045-11271), located at a standard gas well location 990 feet from the North and East lines (Unit A) of Section 25, Township 32 North, Range 11 West, NMPM, San Juan County, New Mexico, by milling a window in the existing 4 1/2-inch replacement production casing string at a depth of approximately 4,875 feet, kick-off from vertical in a southeasterly direction, build to an angle of approximately 45 degrees in order to bottom back into the Blanco-Mesaverde Pool (total horizontal displacement of said wellbore to be approximately 240 feet) within a drilling window or "producing area" comprising the NE/4 equivalent of said Section 25 that is no closer than 790 feet to any quarter section line.

**PROVIDED HOWEVER THAT** prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

**PROVIDED FURTHER THAT** during or upon completion of directional drilling

operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) Blanco-Mesaverde gas production from both the existing Fields "A" Well No. 1-A (API No. 30-045-22398), located at a standard infill gas well location 980 feet from the North line and 1460 feet from the West line (Unit C) of said Section 25, and Fields "A" Well No. 1, as described above, shall be attributed to the existing 320-acre standard gas spacing and proration unit ("GPU") comprising the N/2 of said Section 25.

(4) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Order No. R-8170, as amended.

(5) 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.

(6) 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

WILLIAM J. LEMAY  
Director

S E A L

WJL/MES/kv

cc: Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

Fields A#1

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
[DD-Directional Drilling] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☒ DD ☐ SD

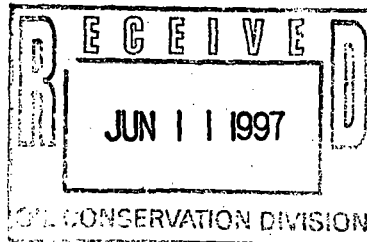
Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owners

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

PAMELA W. STALEY

Print or Type Name

Signature

REGULATORY AFFAIRS ENGR.

Title

Date

6/6/97

✓ wood

1861 ! 1



June 5, 1997

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P.O. Box 6429  
Santa Fe, NM 87505

**Amoco Production Company  
San Juan Business Unit**

1670 Broadway  
Post Office Box 800  
Denver, Colorado 80201  
303-830-4040

**Application For Deviated Wellbore - Rule 111.C.**

**Fields A #1**

**Unit A Section 25-T32N-R11W**

**Blanco Mesaverde Pool**

**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval to enter the existing wellbore in the Fields A #1 well referenced above and directionally drill the well in the Blanco Mesaverde Pool. The well is currently completed as a marginal producing well in the Blanco Mesaverde Pool. Directionally drilling the well will help place the wellbore away from the original openhole completion and provide an opportunity to encounter the naturally occurring fracture system in the Mesaverde formation which will increase the producing rate and ultimate recovery of gas for this well. We are requesting the Project Area for this well to be the Blanco Mesaverde gas proration unit consisting of the N/2 Section 25-T32N-R11W with the Producing Area for the well to consist of a rectangle inside the gas proration unit that is not closer than 790' from the outer boundaries of the gas proration unit.

In accordance with Rule 111-D.(2), attached to aid in your review are:

- 1) a plat showing the well location, project area and producing area for the project well and the offset spacing units, their wells and operators;
- 2) a vertically oriented plan view for the project well showing top and bottom of the pool, degree of angle to be built, kickoff point, penetration point and lateral length;
- 3) a horizontal plan view for the project well showing the project area, producing area, estimated azimuth and maximum length of the lateral;
- 4) a type log section identifying the top and bottom of the pool.

As notification, a copy of this application will be sent by certified mail return receipt requested to the offset operators shown on the attached list advising them that if they have any objection, it must be filed in writing within (20) days of the date notice was sent.

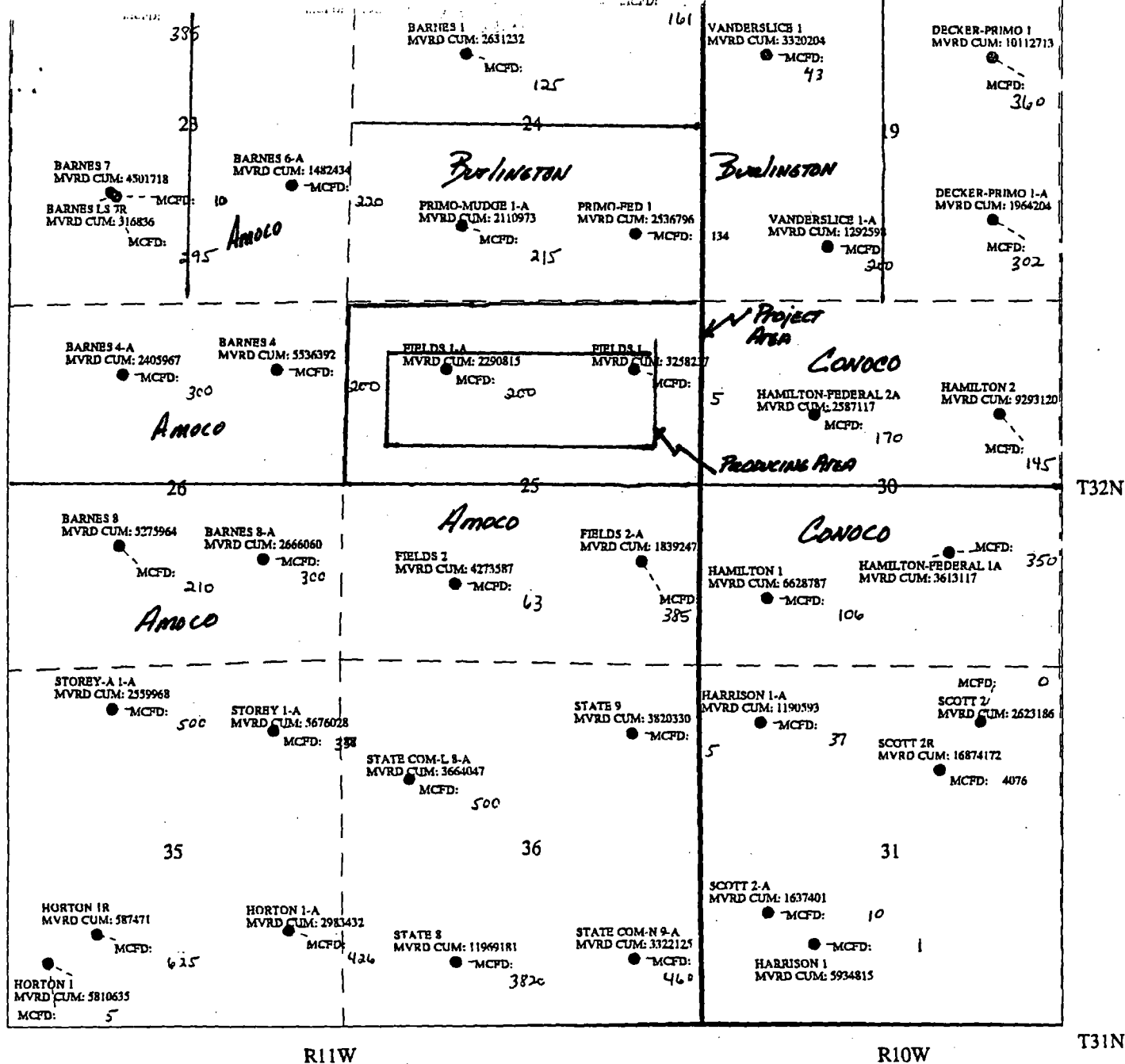
Sincerely,

Pamela W. Staley

**Attachments**

cc: Mark Rothenberg, Amoco  
Pat Archuleta, Amoco  
Wellfile  
Proration File





## AMOCO PRODUCTION COMPANY

Type of Map:	Nine-Section Plat
Section:	MV
Block(s)/Grid(s):	
Area/Country:	SAN JUAN BASIN, NEW MEXICO
License:	
Interpreter(s):	Date: April 28, 1987
Scale:	1:27000
Contour Interval:	
Remarks:	HORIZON MAP WITH CURRENT AND CUMULATIVE PRODUCTION OFFSET BY WELLS Sec. 25-122N-411W
File File No.:	Draft by: R. Rackowski

**DATA SUMMARY SHEET**

**WELLNAME**

**Fields A #1**

**API**

**30-045-11271**

**LOCATION**

**Unit A Section 25-T32N-R11W**

**ACREAGE IN SPACING UNIT**

**N/2 SPACING UNIT - 320 ACRES**

**LOCATION FOOTAGES**

**990 FNL X 990 FEL**

**STANDARD LOCATION?**

**YES**

**OTHER WELL(S) PRODUCING IN SPACING UNIT IN MESAVERDE POOL**

**Fields A #1A (UNIT C) 30-045-22398**

**REASON FOR DEVIATION OR DIRECTIONAL DRILLING**

**SIDETRACK TOTOWARDS FRACTURED FEATURE TO ENHANCE PRODUCTION**

**KICKOFF POINT**

**4875'**

**DIRECTION TO BE DRILLED**

**SOUTHEAST**

**TYPE CURVE**

**HIGH ANGLE**

**LATERAL DISTANCE FROM VERTICAL OR ORIGINAL WELLBORE**

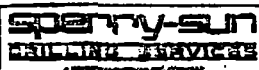
**APPROXIMATELY 237' @ 135 DEGREES TO STAY AT AN ORTHODOX BOTTOMHOLE  
LOCATION**

**OFFSET OPERATOR LIST**

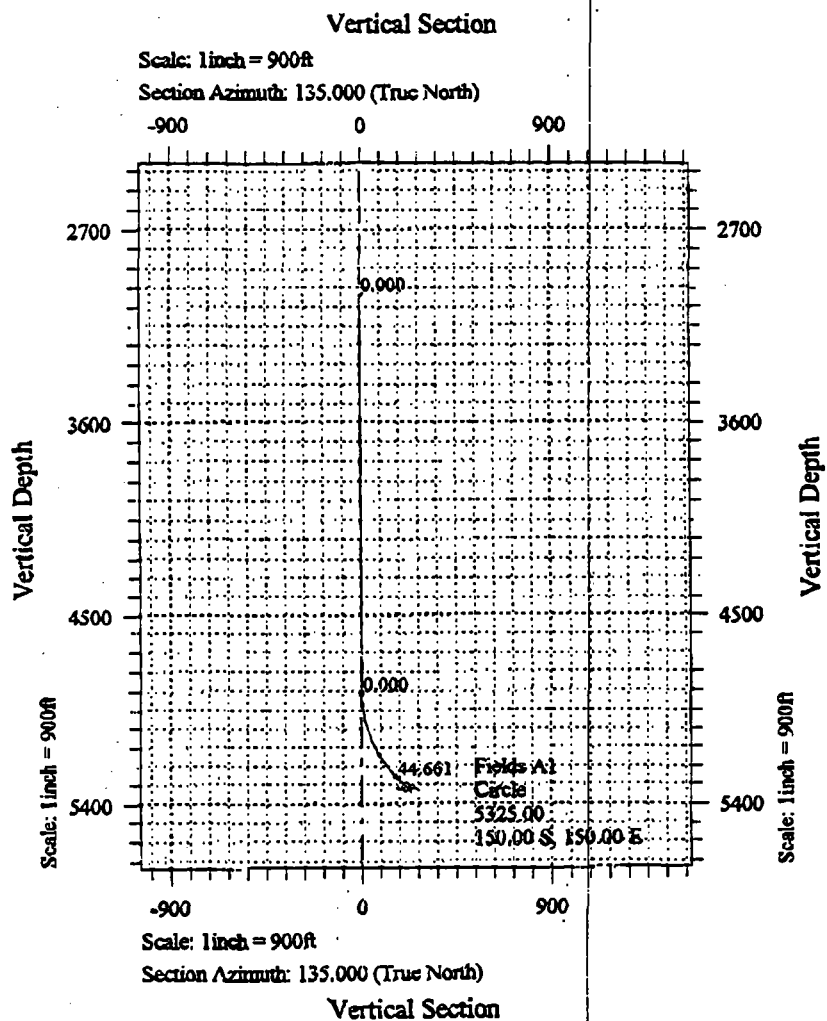
**Fields A #1**

Burlington Resources Oil and Gas Co.  
P.O. Box 4289  
Farmington, NM 87499

Conoco, Inc.  
10 Desta Drive West  
Midland, Texas 79705

**Well: Fields A 1****DrillQuest**

**Customer: Amoco Production Co.**  
**Folder: Amoco Production Co.**  
**Field: New Mexico**  
**Project: Re-Entry Wells**  
**Structure: Sec 25-T32N-R11W**  
**Well: Fields A 1**



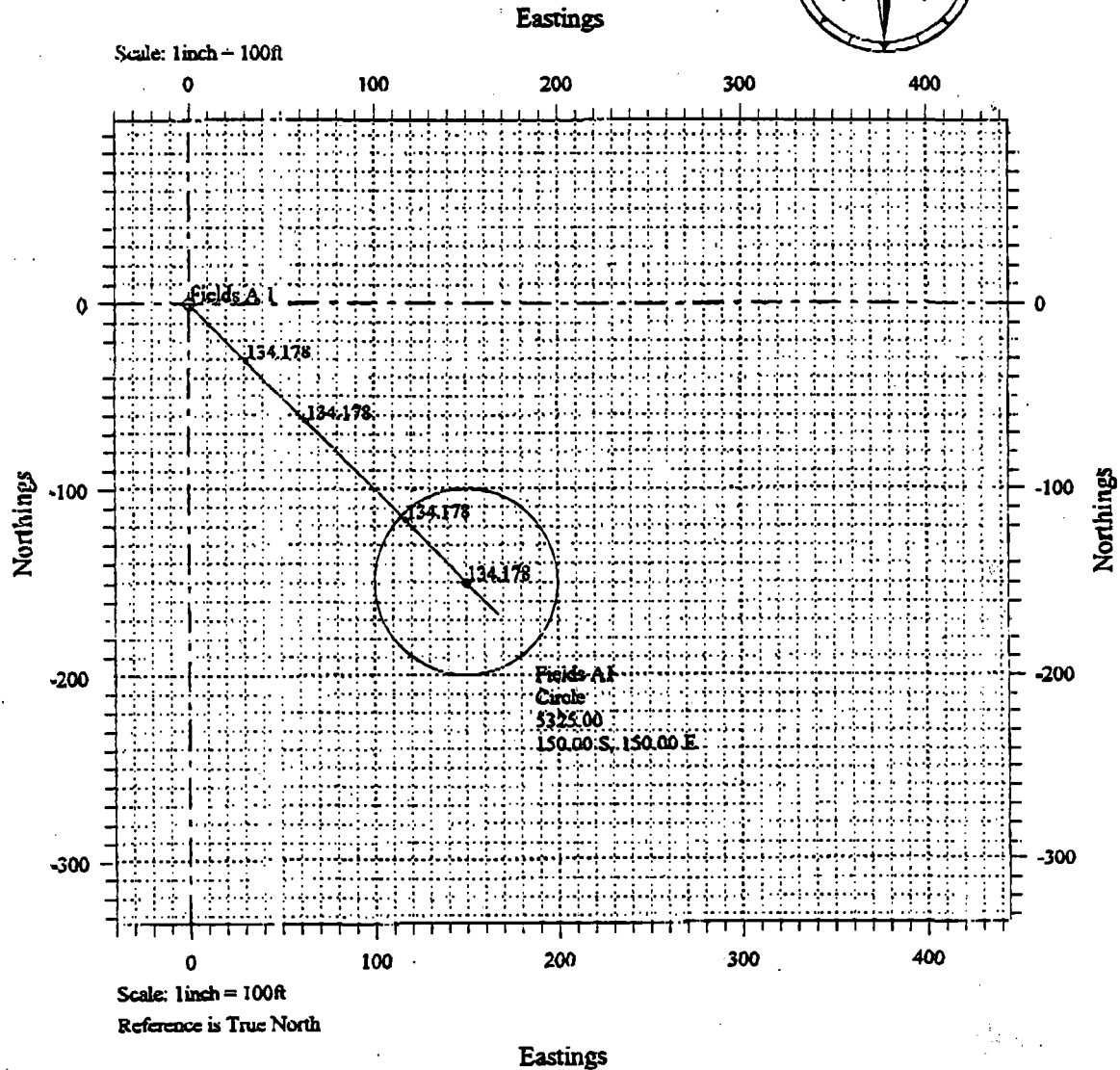
Prepared:

Checked:

Approved:

**SPERRY-SUN**  
DRILLING SERVICES  
A SERVICE CORPORATION OF AMOCO**Well: Fields A 1****DrillQuest**

**Customer: Amoco Production Co.**  
**Folder: Amoco Production Co.**  
**Field: New Mexico**  
**Project: Re-Entry Wells**  
**Structure: Sec 25-T32N-R11W**  
**Well: Fields A 1**



Prepared:

Checked:

Approved:

# Sperry-Sun Drilling Services

## Proposal Report for Fields A 1 - Alternate Fields A 1



**Amoco Production Co.  
New Mexico**

**Re-Entry Wells  
Sec 25-T32N-R11W**

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
3000.00	0.000	0.000	3000.00	0.00 N	0.00 E	0.00	0.000
4875.00	0.000	0.000	4875.00	0.00 N	0.00 E	0.00	0.000
5321.61	44.661	135.000	5277.74	116.98 S	116.98 E	165.43	10.000
5388.06	44.661	135.000	5325.60	150.00 S	150.00 E	212.13	0.000
5423.21	44.661	135.000	5350.00	167.47 S	167.47 E	236.84	0.000

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.  
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Well and calculated along an Azimuth of 135.000° (True).

Coordinate System is NM-W. Grid Convergence at Surface is -0.822°.

Based Upon Minimum Curvature type calculations, at a Measured Depth of 5423.21ft.,  
The Bottom Hole Displacement is 236.84ft., in the Direction of 135.000° (True).

# Amoco Production Company

## ENGINEERING CHART

Sheet No

Of

File

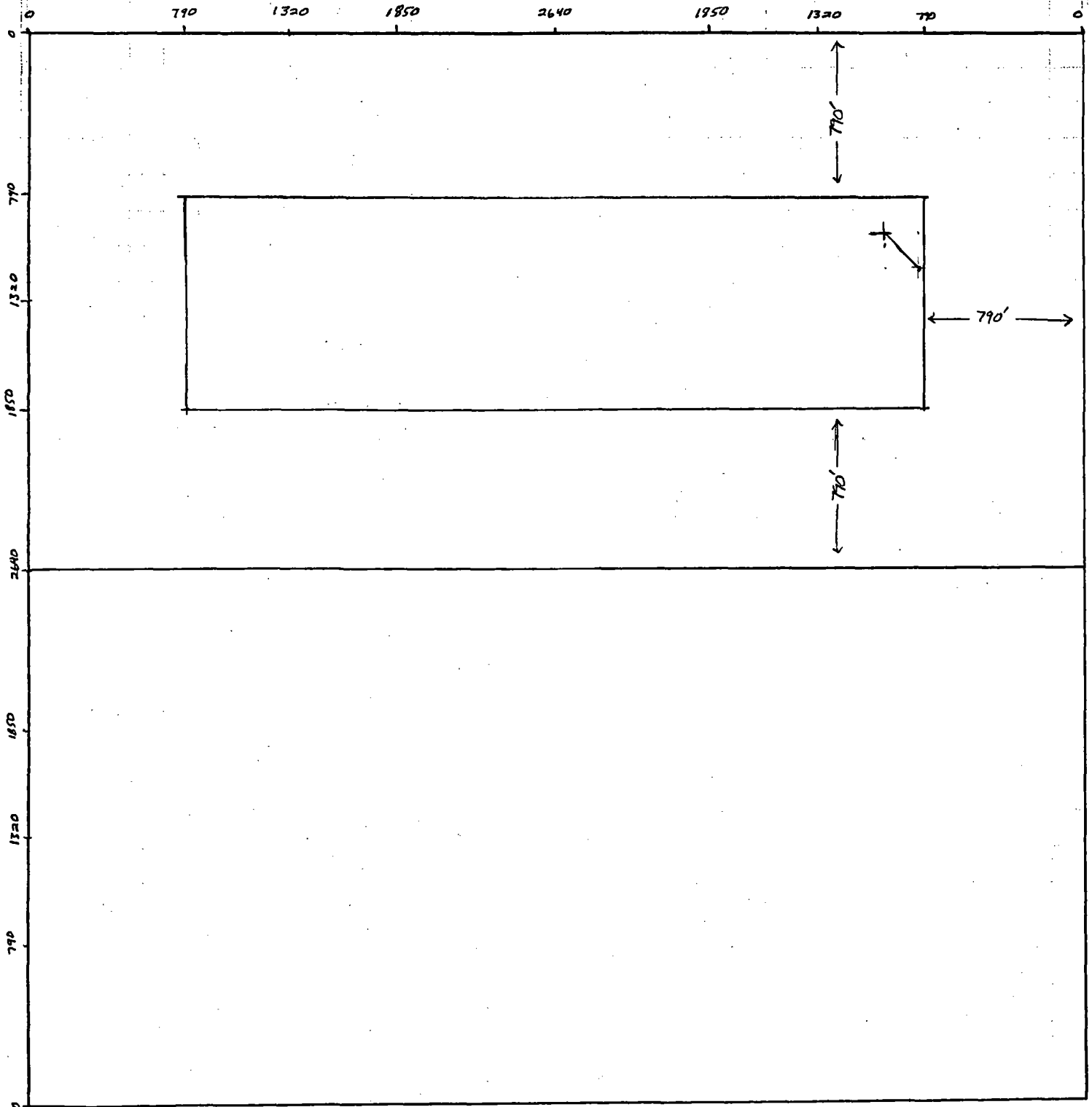
Appn

Date

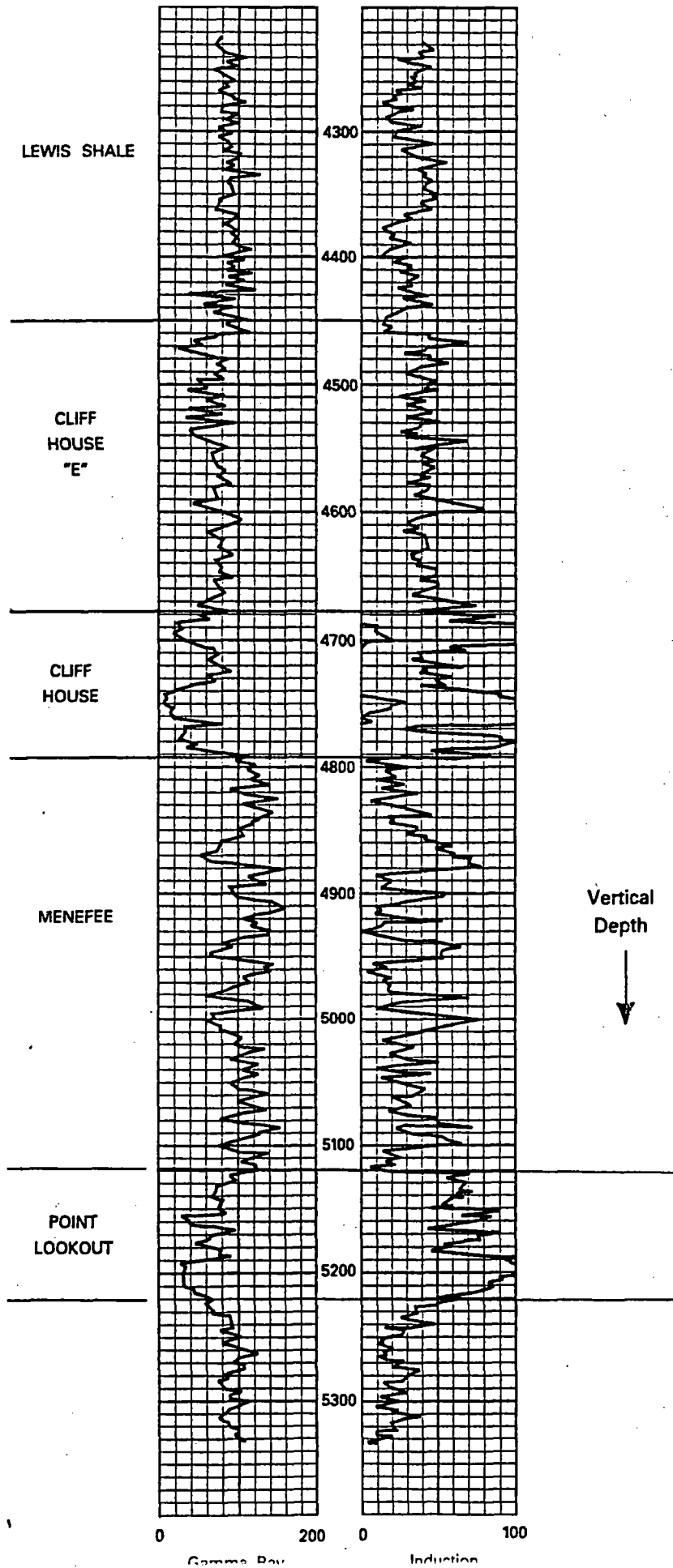
By

SUBJECT Fields A 1 - 3004511271

990' FNL X 990' FEL sec. 25 32N-11W



Typical M.V. Log  
T32N, R10W  
San Juan County, New Mexico





# CORPORATION

UTRON LOG

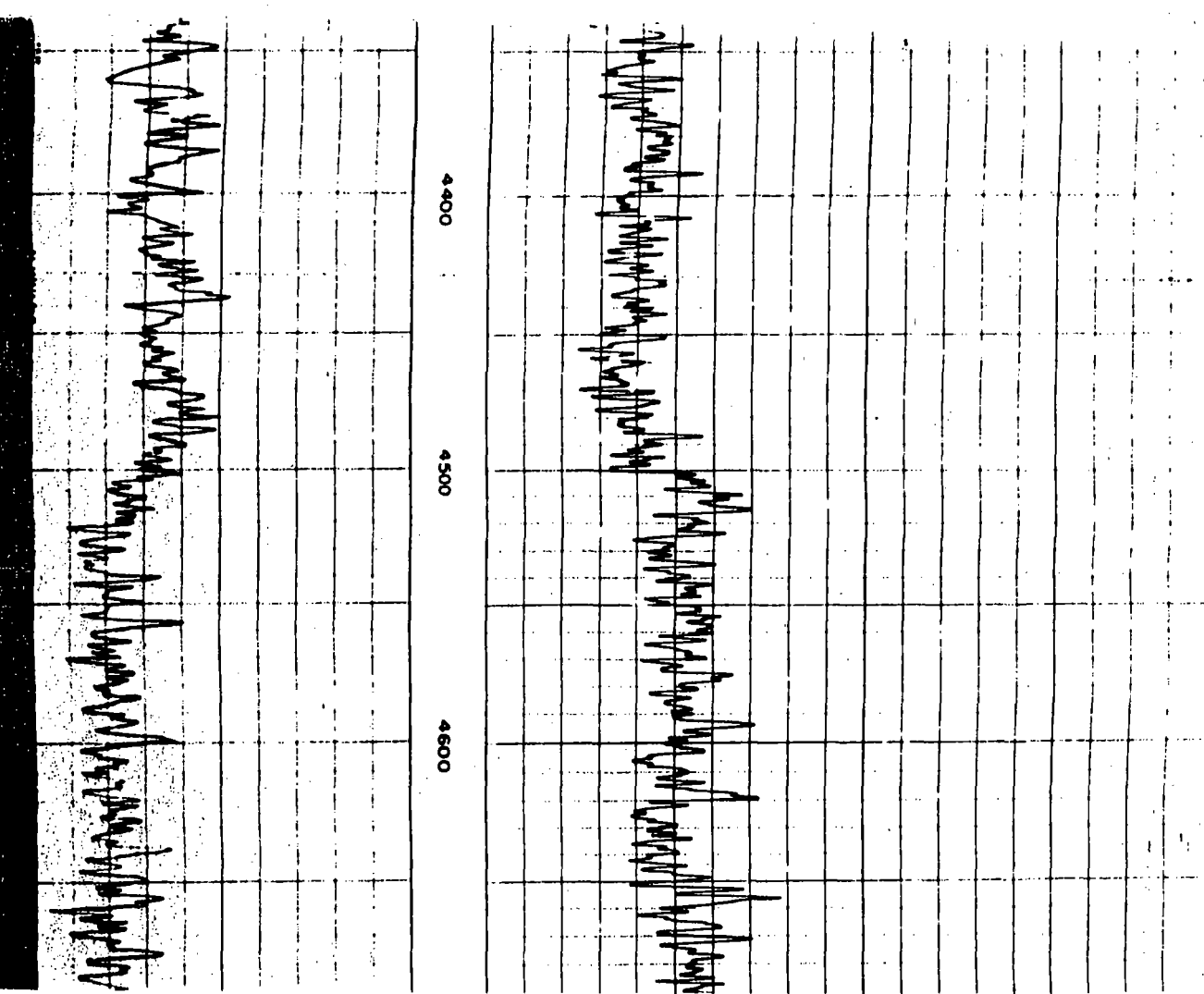
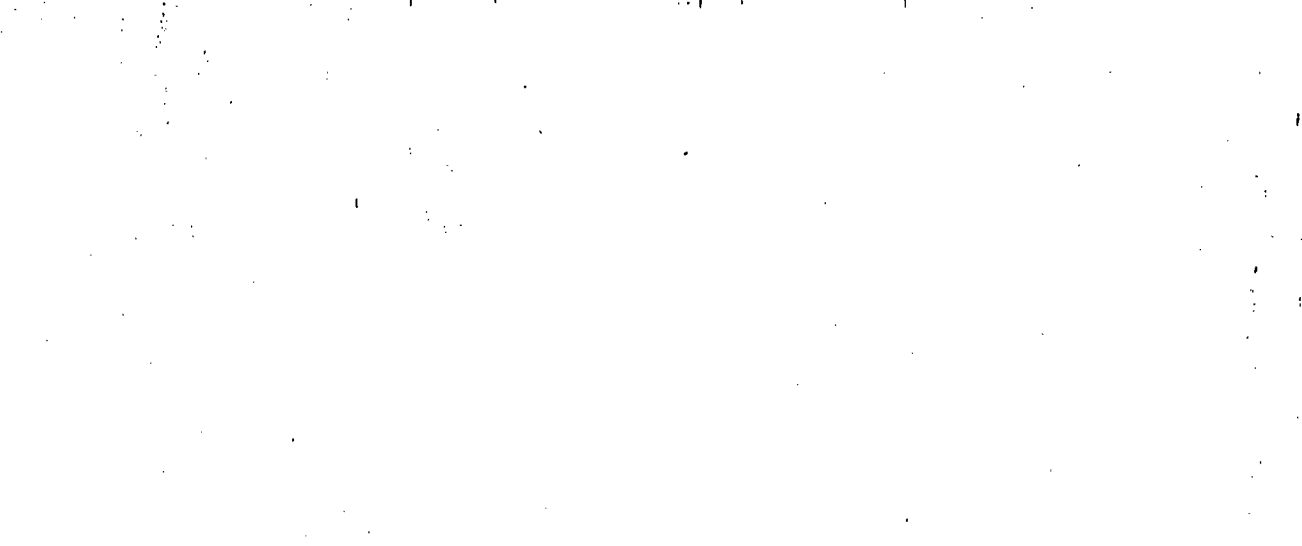
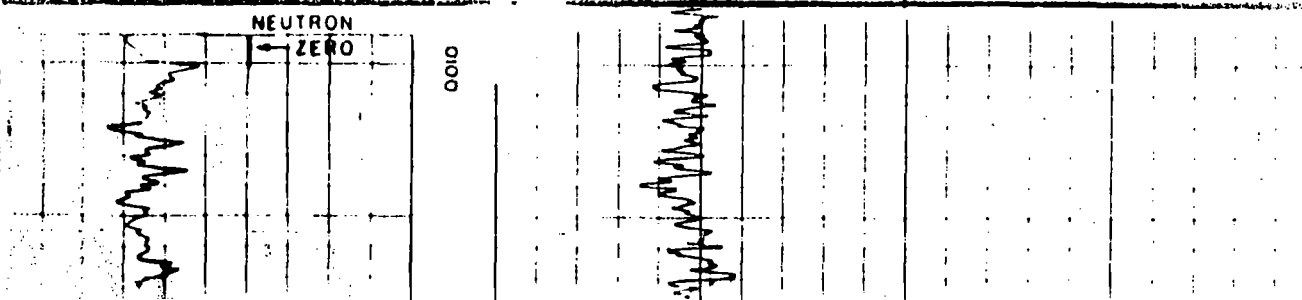
Location of Well  
990' FR N/L  
990' FR E/L  
SEC. 25-32N-11W

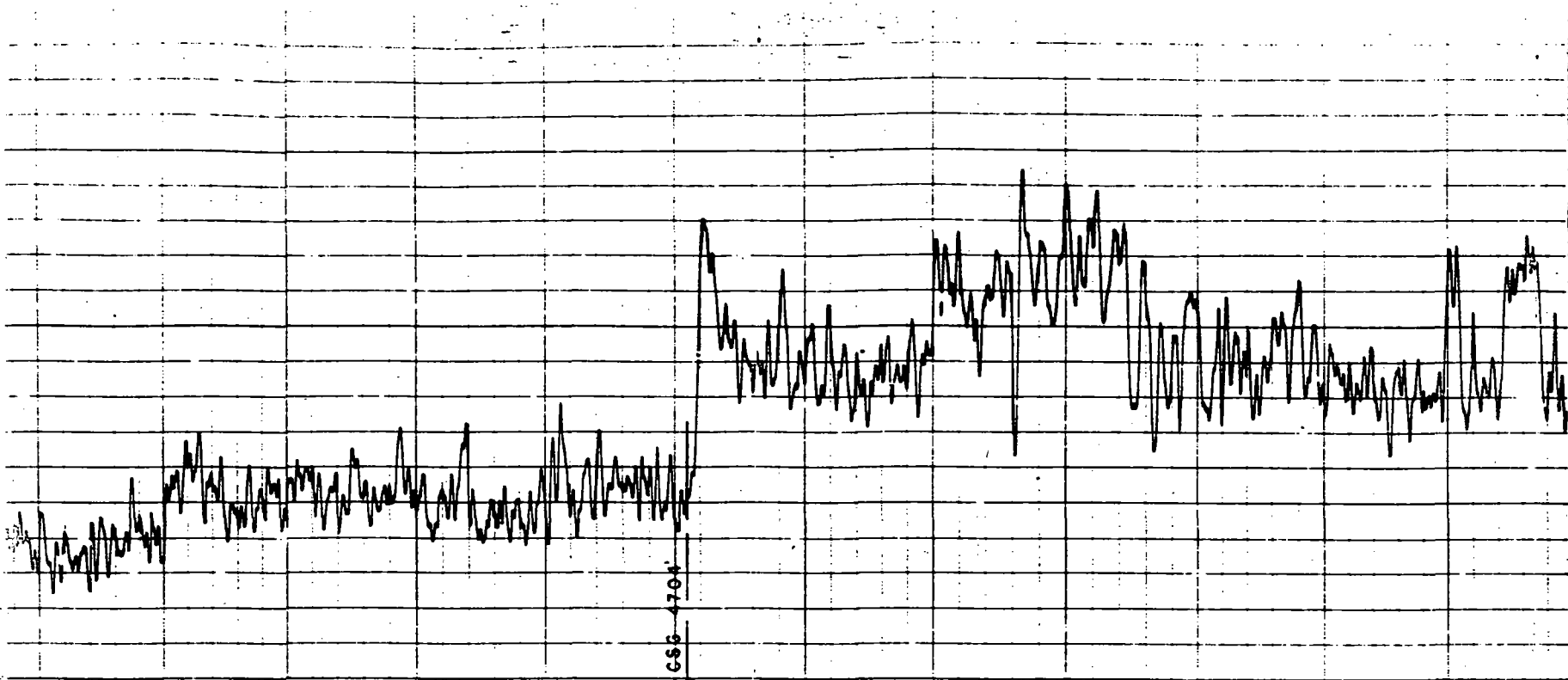
①

Elevation: D.F.: 6202  
K.B.:  
or G.L.:  
FILING No.:

REMARKS  
GAMMA RAY SENSITIVITY 200 FROM 100' TO 4704'  
280 FROM 4704' TO T.D.  
POINT OF ZERO EMISSION 100 DIVISIONS OF TRACK ONE  
NEUTRON ZERO 40 DIVISIONS OF TRACK ONE

GAMMA RAY LOG RADIOACTIVITY INCREASES	DEPTH 200' 100' 100'	NEUTRON LOG RADIOACTIVITY INCREASES	5149-.6-100 (4.0)
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4500

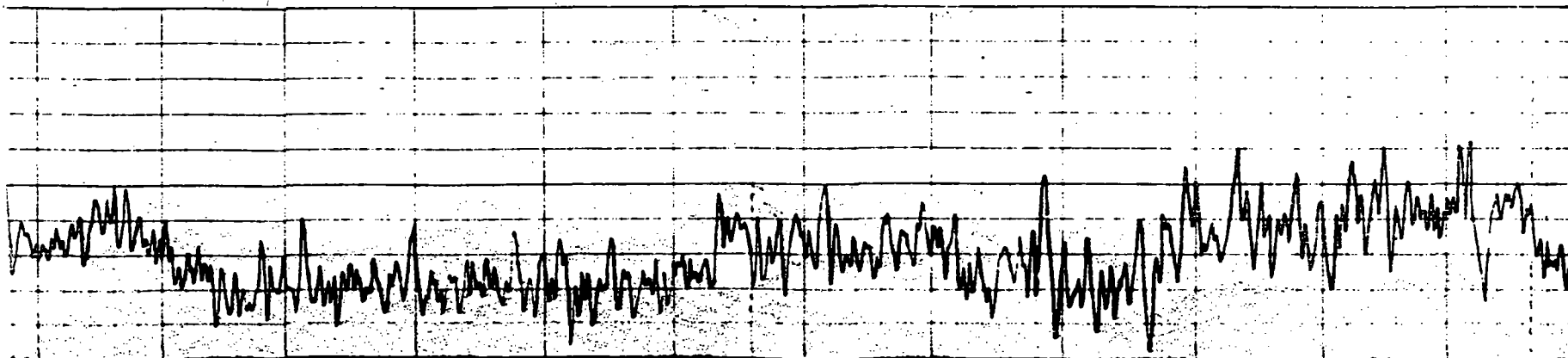
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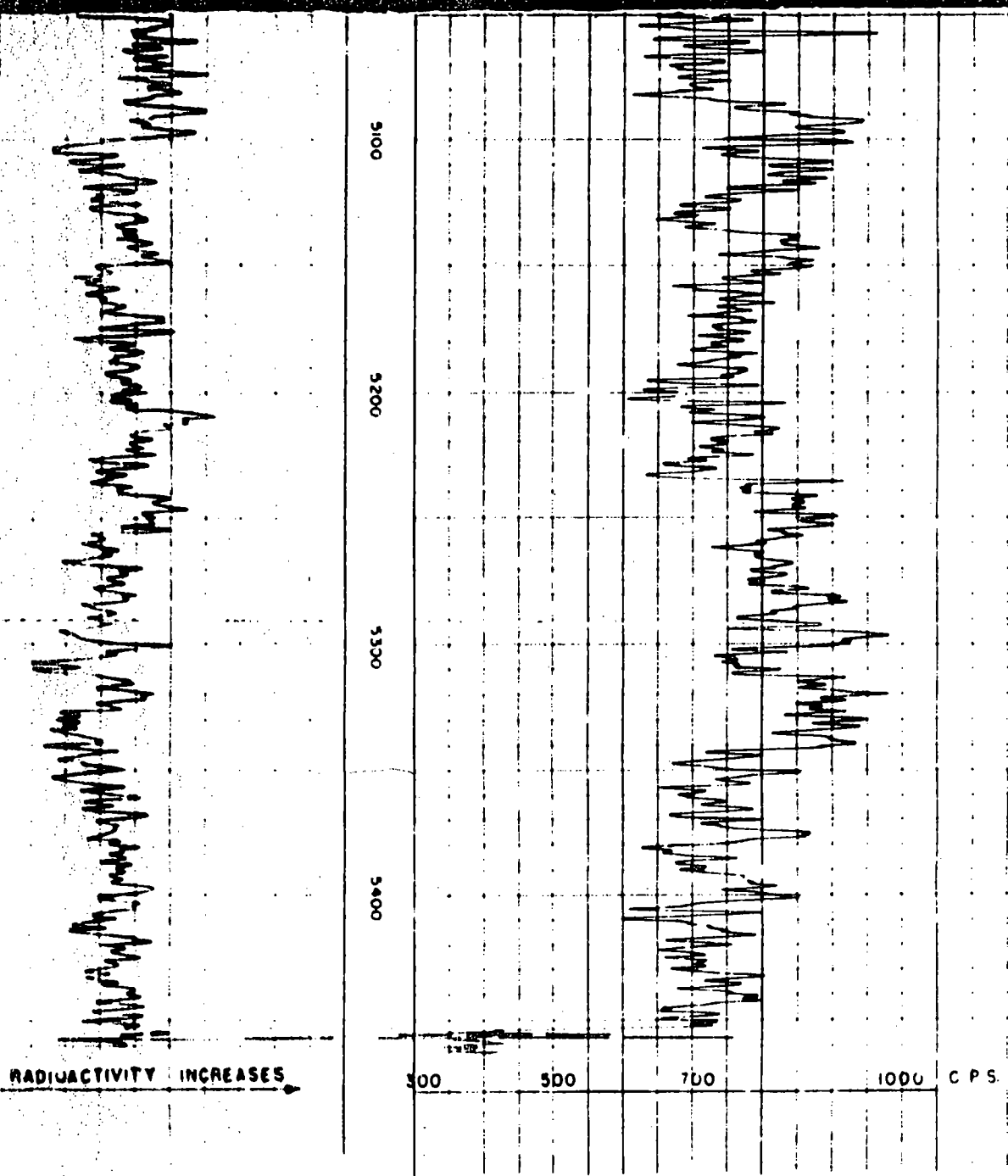
4700

4800

4900

5000





**DISTRICT I**

P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**

311 South First,, Artesia, NM 88210

**DISTRICT III**

1000 Rio Brazos Rd., Aztec, NM 87410

**DISTRICT IV**

2040 South Pacheco, Sante Fe, NM 87505

## State of New Mexico

Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 South Pacheco

Santa Fe, New Mexico 87505

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 3004511271	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 000511	Property Name Fields A	Well Number #1
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation

**Surface Location**

UL or lot no. UNIT A	Section 25	Township 32N	Range 11W	Lot. Idn	Feet from the 990	North/South Line NORTH	Feet from the 990	East/West Line EAST	County San Juan
-------------------------	---------------	-----------------	--------------	----------	----------------------	---------------------------	----------------------	------------------------	--------------------

**Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
Dedicated Acreage:		Joint or Infill	Consolidation Code		Order No.				

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

	<b>OPERATOR CERTIFICATION</b>	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
	Signature	
	Printed Name Pat Archuleta	
Position Staff Assistant		<b>SURVEY CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Date		
Date of Survey		
Signature & Seal of Professional Surveyor		
Certificate No.		

**NEW MEXICO  
OIL CONSERVATION COMMISSION**

Gas Well Plat

Date March 11, 1954El Paso Natural Gas CompanyField1

Operator

Lease

Well No.

Name of Producing Formation Mesa VerdePool BiancoNo. Acres Dedicated to the Well 320Indicate land status and show ownership. Federal

SECTION

25

TOWNSHIP

32NRANGE 11W

	NM 010989 NEW MEXICO OIL CONSERVATION COMMISSION 11-30-1954 11-30-1954 11-30-1954		

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name

Position

Representing

Address

ORIGINAL OWNERS SIGNATUREEl Paso Natural Gas Co.Farmington, New Mexico

(over)

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

07/21/97 18:08:23  
OGOMES -EMFJ  
PAGE NO: 1

Sec : 25 Twp : 32N Rng : 11W Section Type : NORMAL

D 40.00  Federal owned	C 40.00  Federal owned A A	B 40.00  Federal owned	A 40.00  Federal owned A A
E 40.00  Federal owned	F 40.00  Federal owned A	G 40.00  Federal owned	H 40.00  Federal owned

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

07/21/97 18:08:30  
OGOMES -EMFJ  
PAGE NO: 2

Sec : 25 Twp : 32N Rng : 11W Section Type : NORMAL

L 40.00  Federal owned  A	K 40.00  Federal owned	J 40.00  Federal owned	I 40.00  Federal owned  A
M 40.00  Federal owned	N 40.00  Federal owned  A A	O 40.00  Federal owned	P 40.00  Federal owned

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

## Mike Stogner

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**From:** Ernie Busch  
**To:** Mike Stogner  
**Subject:** RE: Rule 111: Directional Drilling  
**Date:** Thursday, July 17, 1997 1:15PM  
**Priority:** High

Mike, Here are some recommendations for the wells that you sent me the otherday, but there are still 2 I haven't seen. Ernie

-----  
**From:** Mike Stogner  
**Sent:** Monday, July 14, 1997 11:03 AM  
**To:** Frank Chavez  
**Cc:** William Lemay; Ernie Busch  
**Subject:** Rule 111: Directional Drilling

In addition to my earlier fax transmission this morning, the following is a list of pending administrative applications effecting District III:

- |     |  |                      |
|-----|--|----------------------|
| (1) | Phillips Petroleum Company<br>San Juan "32-7" Unit Well No. 240<br>Sections 19/20, T32N, R7W<br>Basin Fruitland Coal Gas Pool;     | (Recommend Approval) |
| (2) | Amoco Production Company<br>Nye "LS" Well No. 1-A<br>E/2 Sec. 23-T31N-R11W<br>Blanco-Mesaverde Pool;                               | (Recommend Approval) |
| (3) | Amoco Production Company<br>Wallace Gas Com Well No. 1<br>N/2 Sect. 35-T31N-R11W<br>Blanco-Mesaverde Pool;                         | (Recommend Approval) |
| (4) | Amoco Production Company<br>Schwerdtfeger "LS" Well No. 2-A<br>N/2 Sec. 27-T31N-R9W<br>Blanco-Mesaverde Pool;                      | (Recommend Approval) |
| (5) | Amoco Production Company<br>Prichard "A" Well No. 2-A<br>E/2 Sec. 1-T30N-R9W<br>Blanco-Mesaverde Pool;                             | (Recommend Approval) |
| (6) | Amoco Production Company<br>Florance Well No. 18-R<br>W/2 Sec. 11-T30N-R9W<br>Blanco-Mesaverde Pool;                               | (Recommend Approval) |
| (7) | <del>Amoco Production Company</del><br><del>Fields "A" Well No. 1</del><br>N/2 Sec. 25-T32N-R11W<br>Blanco-Mesaverde Pool; and,    | (Haven't Seen It)    |
| (8) | Amoco Production Company<br>Lodewick Well No. 1<br>18-T27N-R9W<br>Basin-Fruitland Coal Gas Pool/Fulcher Kutz Pictured Cliffs Pool. | (Haven't Seen It)    |