

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

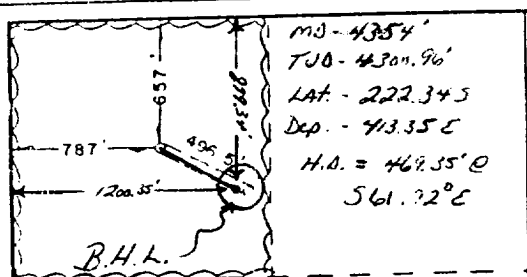
Operator Amoco Production Company		Lease South Hobbs (G-SA) Unit		Well No. 219
Unit Letter D	Section 3	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well: 657 feet from the North line and 787 feet from the West line				
Ground Level Elev. 3628.0'	Producing Formation Grayburg - San Andres		Pool Hobbs GSA	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

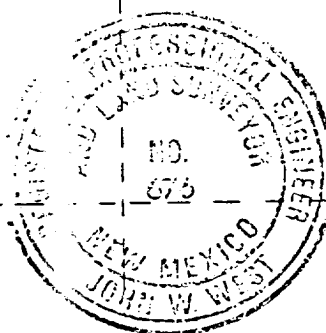
If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, etc. eliminating such interests, has been approved by the Commission.



NOTE: An area around the location was M-scoped & no buried pipelines were found.

NOTE: This well to be directionally drilled. Bottom hole location will be 900' F.N.L. and 1220' F.W.L.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Steve Brunkle*

Position: Administrative Analyst

Company: Amoco Production Company

Date: September 5, 1986

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.

Date Surveyed: July 11, 1986

Registered Professional Engineer and/or Land Surveyor

Signature: *John W. West*

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

MAGNETIC MULTISHOT
10 EAST
S-60.70-E
SURVEYOR- GARRY HENDRIX

NOVEMBER 11, 1986

File Name: AMOCO219

***** RECORD OF SURVEY *****

Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method
All Ang. in Decimal
Vertical Section Plane: S 60.00 E

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	TOTAL REL. POLAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY DEG/100'
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
42.30	.25	N 53.00 W	42.30	42.30	42.30 N 53.00 W	-0.09	0.09	N 53.00 W	.59
70.51	.25	N 70.00 W	28.21	70.51	70.51 N 70.00 W	-0.21	0.21	N 57.85 W	.26
99.06	.25	N 51.00 W	28.55	99.06	99.06 N 51.00 W	-0.34	0.34	N 58.52 W	.29
130.17	.75	N 21.00 E	61.11	130.17	130.17 N 21.00 E	-0.69	0.78	N 32.50 W	1.17
221.27	1.00	N 32.00 E	61.11	221.27	221.27 N 32.00 E	-0.74	1.49	N 17.17 E	.51
282.37	1.00	N 26.00 E	61.11	282.37	282.37 N 26.00 E	-0.75	2.47	N 12.78 E	.20
343.47	1.00	N 27.00 E	61.11	343.47	343.47 N 27.00 E	-0.83	3.52	N 16.01 E	.09
404.57	1.00	N 13.00 E	61.11	404.57	404.57 N 13.00 E	-1.07	4.59	N 16.47 E	.29
465.67	1.00	N 14.00 E	61.11	465.67	465.67 N 14.00 E	-1.38	5.65	N 15.91 E	.03
526.78	.75	N 16.00 E	61.11	526.78	526.78 N 16.00 E	-1.62	6.55	N 15.73 E	.41
587.88	1.00	N 11.00 E	61.11	587.88	587.88 N 11.00 E	-1.88	7.52	N 15.50 E	.43
648.98	1.00	N 11.00 E	61.11	648.98	648.98 N 11.00 E	-2.23	8.58	N 14.94 E	0.00
710.08	1.20	N 20.00 E	61.11	710.08	710.08 N 20.00 E	-2.52	9.75	N 15.01 E	.43
771.19	1.00	N 19.00 E	61.11	771.19	771.19 N 19.00 E	-2.74	10.92	N 15.49 E	.33
832.29	.75	N 22.00 E	61.11	832.29	832.29 N 22.00 E	-2.89	11.85	N 15.88 E	.42
893.39	.50	N 20.00 W	61.11	893.39	893.39 N 20.00 W	-3.21	12.48	N 15.12 E	.83
954.49	.50	N 20.00 E	61.11	954.49	954.49 N 20.00 E	-3.47	12.99	N 14.51 E	.56
1015.60	.50	N 20.00 W	61.11	1015.60	1015.60 N 20.00 W	-3.73	13.49	N 13.96 E	.56
1076.71	.50	N 22.00 W	61.11	1076.71	1076.71 N 22.00 W	-4.14	13.94	N 12.70 E	.03
1137.82	.250	N 5.00 W	61.11	1137.82	1137.82 N 5.00 W	-4.51	14.41	N 11.77 E	.24

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219

LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
1199.04	.50	N 5.00 W	61.11	1199.62	14.64 N	2.89 E	-4.82	14.93 N	11.18 E	0.00
1260.15	.50	N 9.00 E	61.11	1260.03	15.17 N	2.91 E	-5.06	15.45 N	10.85 E	.20
1321.26	.75	N 11.00 E	61.11	1321.14	15.83 N	3.03 E	-5.29	16.12 N	10.83 E	.41
1382.27	.50	N 11.00 E	61.11	1382.24	16.48 N	3.16 E	-5.51	16.78 N	10.84 E	.41
1443.48	.75	N 6.00 W	61.11	1443.35	17.15 N	3.18 E	-5.82	17.44 N	10.52 E	.51
1504.39	1.00	N 7.00 E	60.91	1504.25	18.08 N	3.19 E	-6.27	18.36 N	10.02 E	.52
1565.70	1.25	N 7.00 E	61.31	1565.55	19.27 N	3.24 E	-6.74	19.56 N	9.83 E	.41
1597.00	1.50	N 7.00 E	31.30	1596.84	20.02 N	3.43 E	-7.04	20.31 N	9.73 E	.80
1629.00	1.50	N 7.00 E	32.00	1628.83	20.85 N	3.53 E	-7.36	21.15 N	9.62 E	0.00
1669.00	1.00	N 12.00 E	60.00	1668.82	22.14 N	3.76 E	-7.91	22.45 N	9.64 E	.36
1751.00	1.00	N 47.00 E	62.00	1750.81	23.06 N	4.25 E	-7.91	23.45 N	10.55 E	.34
1812.00	1.00	N 43.00 E	62.00	1812.00	23.82 N	5.06 E	-7.55	24.36 N	11.99 E	.31
1875.00	1.00	N 63.00 E	62.00	1874.79	24.47 N	5.92 E	-7.11	25.18 N	13.59 E	.56
1937.00	1.00	N 77.00 E	62.00	1936.78	24.84 N	6.93 E	-6.42	25.79 N	15.59 E	.39
1999.00	.50	N 11.00 E	62.00	1998.77	25.39 N	7.47 E	-6.23	26.47 N	16.73 E	1.48
2061.00	2.50	S 63.00 E	62.00	2060.75	26.01 N	8.72 E	-5.45	27.43 N	18.54 E	4.32
2123.00	5.00	S 63.00 E	62.00	2122.61	24.17 N	12.34 E	-1.40	27.13 N	27.04 E	4.03
2185.00	6.00	S 37.00 E	62.00	2184.33	21.20 N	17.46 E	4.34	27.48 N	39.51 E	1.86
2247.00	7.00	S 60.00 E	62.00	2245.93	17.69 N	23.56 E	11.36	29.46 N	53.10 E	1.95
2309.00	7.50	S 53.00 E	62.00	2307.43	13.55 N	30.18 E	19.37	33.86 N	65.33 E	2.19
2371.00	9.00	S 61.30 E	62.00	2368.79	8.71 N	37.64 E	26.24	38.63 N	75.97 E	3.04
2433.00	10.00	S 61.00 E	62.00	2429.94	3.75 N	46.59 E	38.47	46.74 N	85.40 E	1.61
2495.00	11.00	S 62.00 E	62.00	2490.90	1.64 S	56.52 E	49.77	56.54 S	88.33 E	1.64
2557.00	12.00	S 61.00 E	62.00	2551.65	7.54 S	67.38 E	62.12	67.80 S	83.61 E	1.64
2619.00	12.50	S 61.00 E	62.00	2612.24	13.92 S	78.89 E	75.28	80.10 S	79.99 E	.81
2681.00	13.00	S 63.00 E	62.00	2672.71	20.34 S	90.97 E	89.95	93.21 S	77.39 E	1.08
2743.00	14.50	S 61.00 E	62.00	2732.93	27.26 S	103.98 E	103.68	107.49 S	75.31 E	2.54
2805.00	15.00	S 63.00 E	62.00	2792.89	34.67 S	117.91 E	119.45	122.91 S	72.61 E	1.15
2867.00	15.50	S 60.00 E	62.00	2852.71	42.45 S	132.24 E	135.75	138.89 S	72.20 E	1.51
2929.00	15.50	S 63.00 E	62.00	2912.45	50.36 S	146.80 E	152.31	155.20 S	71.07 E	1.29
2959.00	16.00	S 63.00 E	30.00	2941.32	54.05 S	154.06 E	160.45	163.27 S	70.67 E	1.67
2969.00	16.00	S 63.00 E	10.00	2950.94	55.31 S	156.51 E	163.20	166.00 S	70.54 E	0.00
2982.00	15.75	S 62.00 E	13.00	2963.44	55.95 S	159.67 E	166.75	169.52 S	70.37 E	2.65

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219

LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
3045.00	15.25	S 61.00 E	63.00	3024.15	64.95 S	174.46 E	183.58	186.17	S 69.57 E	.90
3109.00	14.75	S 61.00 E	63.00	3085.00	72.89 S	188.73 E	179.38	202.31	S 68.38 E	.79
3171.00	14.00	S 61.00 E	63.00	3146.03	80.47 S	202.41 E	215.52	217.61	S 68.32 E	1.19
3234.00	13.25	S 60.00 E	63.00	3207.26	87.78 S	215.32 E	230.36	232.53	S 67.82 E	1.25
3297.00	13.50	S 58.00 E	63.00	3268.55	95.28 S	227.81 E	244.93	246.94	S 67.30 E	.83
3360.00	13.00	S 58.00 E	63.00	3329.87	102.93 S	240.06 E	259.36	261.20	S 66.79 E	.79
3423.00	12.25	S 54.00 E	63.00	3391.35	110.63 S	251.47 E	273.10	274.73	S 66.25 E	1.63
3486.00	12.00	S 57.00 E	63.00	3452.94	118.13 S	262.38 E	286.19	287.74	S 65.75 E	1.06
3549.00	11.00	S 56.00 E	63.00	3514.63	125.06 S	272.85 E	298.82	300.14	S 65.73 E	1.62
3612.00	10.75	S 56.00 E	63.00	3576.54	131.71 S	282.70 E	310.38	311.88	S 65.12 E	.40
3675.00	11.00	S 54.00 E	63.00	3638.41	138.52 S	292.44 E	322.52	323.59	S 64.85 E	.72
3738.00	10.75	S 53.00 E	63.00	3700.29	145.42 S	302.12 E	334.15	335.29	S 64.33 E	.50
3801.00	11.00	S 56.00 E	63.00	3762.15	152.16 S	311.91 E	346.20	347.05	S 64.00 E	.50
3864.00	11.25	S 55.00 E	63.00	3823.97	159.04 S	321.93 E	358.32	359.07	S 63.71 E	.50
3927.00	11.25	S 54.00 E	63.00	3885.75	166.18 S	331.94 E	370.55	371.21	S 63.41 E	.31
3990.00	11.75	S 55.00 E	63.00	3947.49	173.47 S	342.16 E	383.06	383.62	S 63.12 E	.85
4053.00	12.00	S 55.00 E	63.00	4009.14	180.91 S	352.78 E	395.97	396.46	S 62.83 E	.40
4116.00	12.50	S 55.00 E	63.00	4070.71	188.52 S	363.73 E	409.19	409.71	S 62.50 E	.79
4179.00	13.50	S 57.00 E	63.00	4132.09	196.50 S	375.48 E	421.42	422.09	S 62.33 E	1.74
4242.00	15.00	S 56.00 E	63.00	4193.15	205.06 S	388.41 E	433.50	434.22	S 62.17 E	2.41
4305.00	15.00	S 55.00 E	63.00	4253.56	214.39 S	402.23 E	455.66	456.94	S 61.92 E	1.64
4364.00	16.00	S 55.00 E	49.00	4300.95	222.34 S	413.35 E	469.14	469.33	S 61.72 E	0.00

BOTTOM HOLE CLOSURE: 469.33 Feet at S 61.72 Degrees E

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

26 NOV 1986 @ 8:31



DATA DRILL

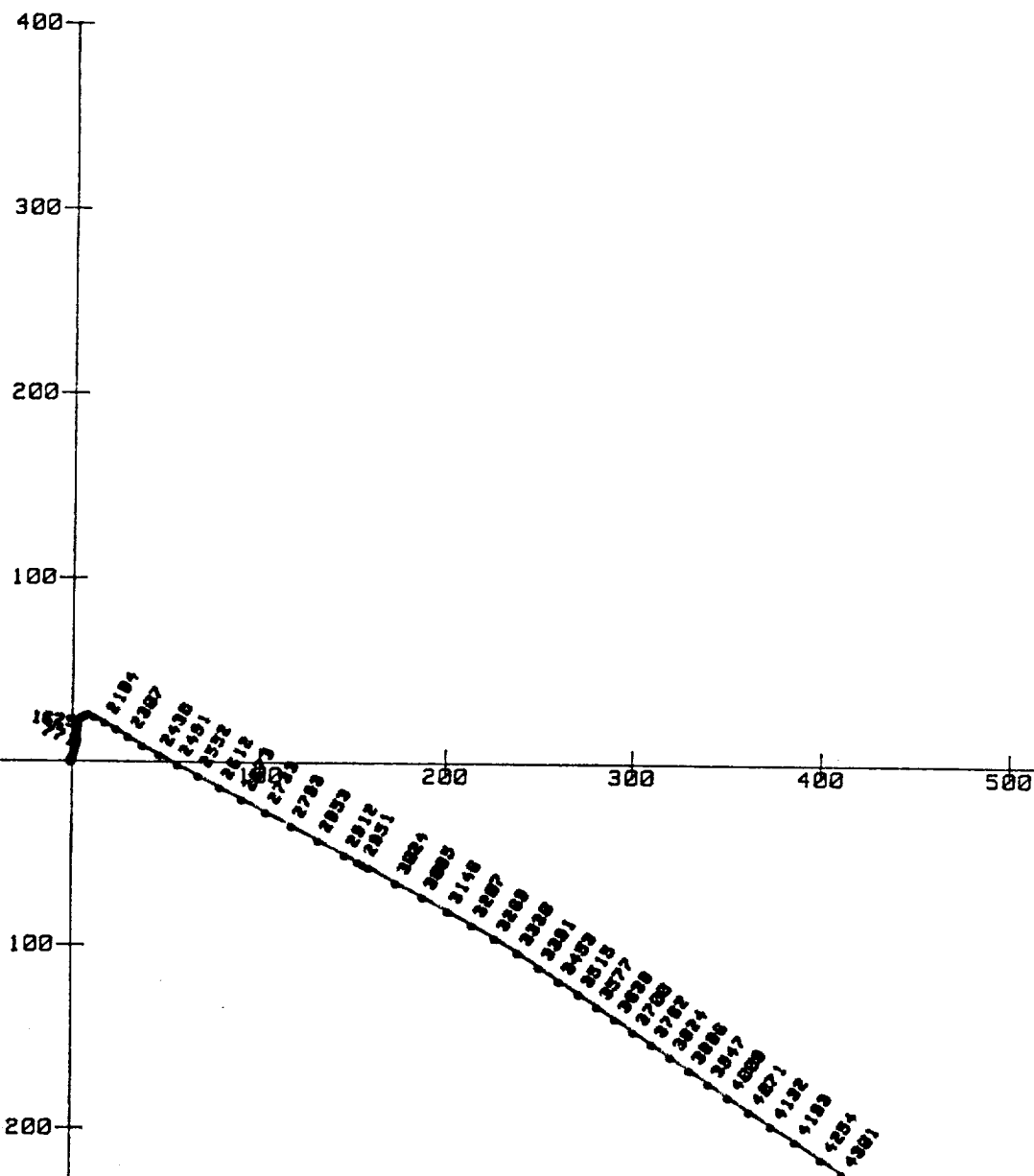
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 100 FEET/INCH

BHL: 469 FEET
@ S 61.72 E
TVD: 4301 FEET
MD: 4354 FEET



AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

26 NOV 1986 @ 8:34

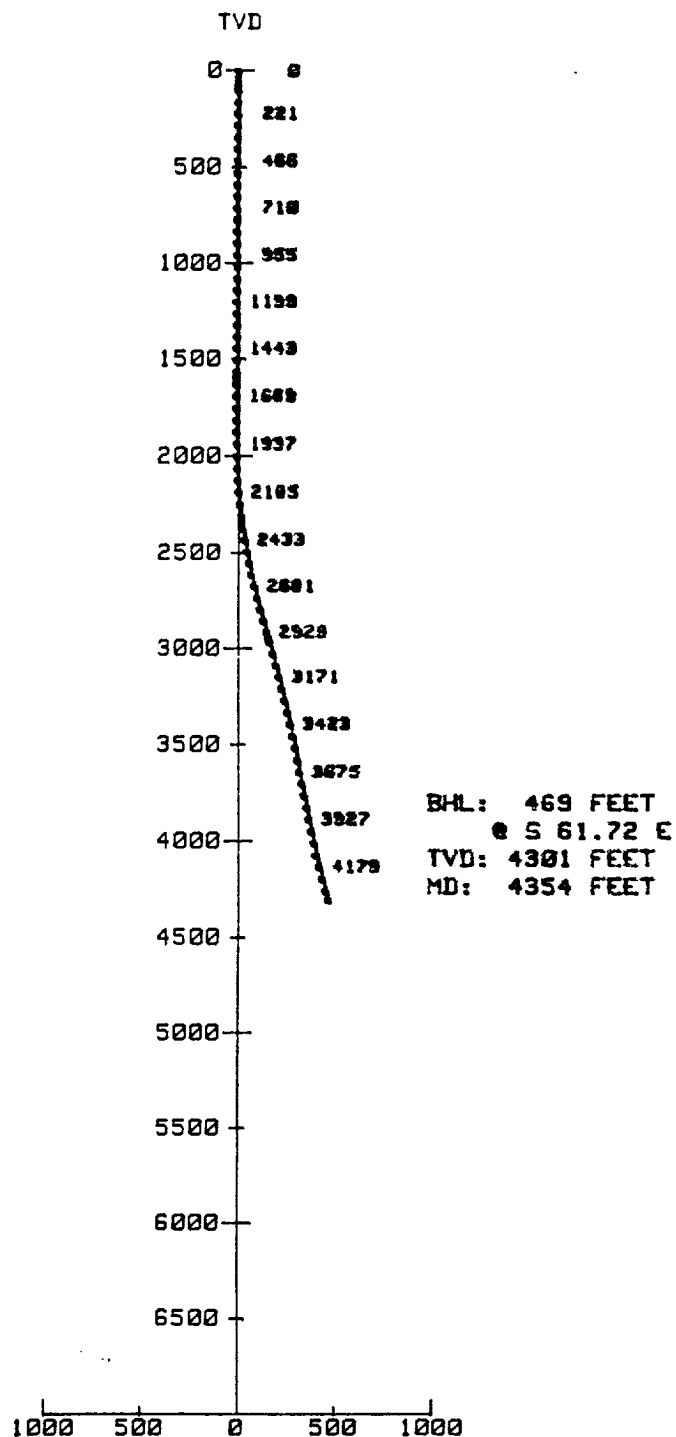


DATA DRILL

Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 1000 FEET/INCH



VERTICAL SECTION
SECTION PLANE: S 60.00 E

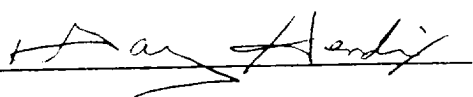
RECEIVED
DEC 17 1986
OCD
HOBBS OFFICE

SMITH DRILLING SYSTEMS

SURVEY CERTIFICATION

COMPANY AMOCO PRODUCTION COMPANY WELL NAME & NO. SOUTH HOBBS UNIT # 219
DATE of CERTIFICATION 11-08-86 LOCATION LEA COUNTY, NEW MEXICO
TYPE of SURVEY MAGNETIC MULTISHOT FROM SURFACE TO 1629'
JOB NUMBER 08611022 TICKET NUMBER 5129

THE ABOVE SURVEY WAS PERFORMED BY ME ON NOVEMBER 07 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE
TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

GARRY HENDRIX 
SURVEYOR

FILM TRANSFER RECEIPT

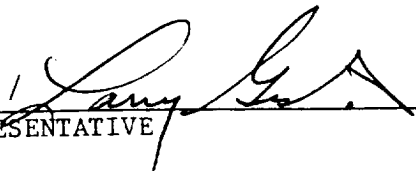
I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE SURVEY.

DATE RECEIVED 19

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING
TO CURRENT SMITH DRILLING SYSTEMS STANDARDS.

LARRY GIST / 
S.D.S. REPRESENTATIVE

RECEIVED

DEC 17 1986

OCD
HOBBS OFFICE

SMITH DRILLING SYSTEMS

SURVEY CERTIFICATION

COMPANY AMOCO PRODUCTION COMPANY WELL NAME & NO. SOUTH HOBBS UNIT # 219
DATE of CERTIFICATION 11-12-86 LOCATION LEA COUNTY, NEW MEXICO
TYPE of SURVEY MAGNETIC MULTISHOT FROM 1629' TO 2969'
JOB NUMBER 008611022 TICKET NUMBER 5131

THE ABOVE SURVEY WAS PERFORMED BY ME ON NOVEMBER 11 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE
TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

GARRY HENDRIX 
SURVEYOR

FILM TRANSFER RECEIPT

I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE SURVEY.

DATE RECEIVED 19____

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING
TO CURRENT SMITH DRILLING SYSTEMS STANDARDS.

LARRY GIST / 
S.D.S. REPRESENTATIVE

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

SCIENTIFIC DRILLING CONTROLS

SURVEY CERTIFICATION

COMPANY Amoco Production Co. WELL NAME & NO. S.H.U. 219
DATE of CERTIFICATION 11-16-86 LOCATION Lea Co., New Mexico
TYPE of SURVEY Magnetic Multi Shot FROM 2969' TO 4354'
JOB NUMBER 132M1186053 TICKET NUMBER _____

THE ABOVE SURVEY WAS PERFORMED BY ME ON Nov. 15, 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED
STANDARDS AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

David M. Meach
SURVEYOR

FILM TRANSFER RECEIPT

I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE
SURVEY.

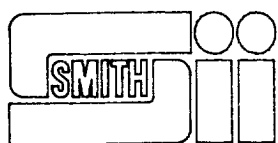
DATE RECEIVED 19____

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS
ACCEPTABLE ACCORDING TO CURRENT SCIENTIFIC DRILLING CONTROLS STANDARDS.

D. A. Rodriguez
S.D.C. REPRESENTATIVE



DATA DRILL

Division of Smith International, Inc.

REPORT of WELL COMPLETION

AMOCO PRODUCTION CO.
SHU 219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

RECEIVED
DEC 16 1986
OCD
HOBBS OFFICE

RECEIVED

DEC 17 1986

OCD
HOBBS OFFICE

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SHU 215
SEC 4-T19S-R38E
LEA COUNTY, NEW MEXICO

FILE NAME: SHU215

***** RECORD OF PROPOSAL *****

RADIUS OF CURVATURE METHOD
PROPOSAL COMPUTED BY THE DATADRIL C.A.D.D.S. SYSTEM
VERTICAL SECTION PLANE: N 3.31 E

MEASURED DEPTH (FT)	COURSE LENGTH (FT)	INCL. ANGLE (DEG)	D R I F T DIRECTION (DEG)	TRUE VERTICAL DEPTH	T O T A L RECT COORDINATES (FT) (FT)		VERTICAL SECTION (FT)	DOGLEG SEVERITY (DEG/100')
0.00	0.00	0.00	N 3.31 E	0.00	0.00 N	0.00 E	0.00	0.00
START OF BUILD #1								
2200.00	2200.00	0.00	N 3.31 E	2200.00	0.00 N	0.00 E	0.00	0.00
2300.00	100.00	1.50	N 3.31 E	2299.99	1.31 N	.08 E	1.31	1.50
2400.00	100.00	3.00	N 3.31 E	2399.91	5.23 N	.30 E	5.23	1.50
2500.00	100.00	4.50	N 3.31 E	2499.69	11.76 N	.68 E	11.77	1.50
2600.00	100.00	6.00	N 3.31 E	2599.27	20.69 N	1.21 E	20.92	1.50
2700.00	100.00	7.50	N 3.31 E	2698.57	32.62 N	1.89 E	32.68	1.50
2800.00	100.00	9.00	N 3.31 E	2797.54	46.95 N	2.71 E	47.03	1.50
2900.00	100.00	10.50	N 3.31 E	2896.09	63.86 N	3.69 E	63.96	1.50
3000.00	100.00	12.00	N 3.31 E	2994.16	83.33 N	4.82 E	83.47	1.50
3100.00	100.00	13.50	N 3.31 E	3091.70	105.36 N	6.09 E	105.54	1.50

END OF BUILD #1...START OF HOLD SECTION

3109.10	9.10	13.64	N 3.31 E	3100.55	107.50 N	6.21 E	107.68	1.54
TARGET LOCATION: 4300 TVD								
4343.35	1234.25	13.64	N 3.31 E	4300.00	398.00 N	23.00 E	398.66	0.00

RECEIVED

DEC 17 1986

OCC
NOBBS OFFICE

3 DEC 1986 @ 10:02

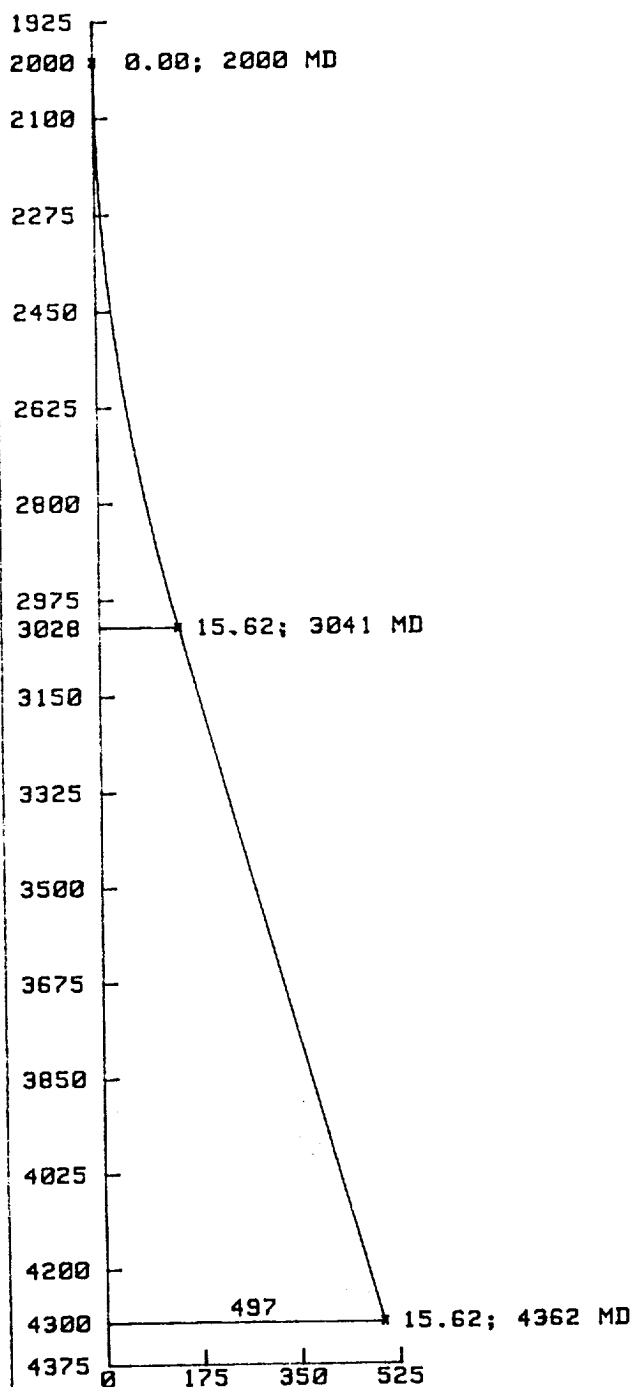
AMOCO PRODUCTION CO.
SHU 219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO



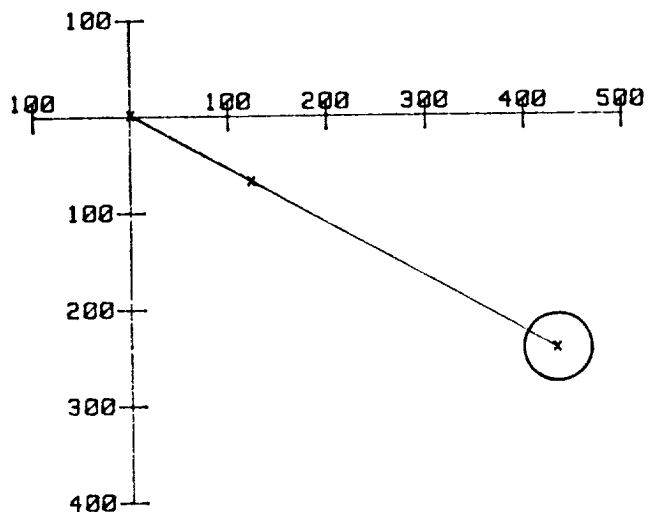
DATADRIL

Division of Smith International, Inc.

VERTICAL PLAN
SCALE: 175 FEET/DIVISION



HORIZONTAL PLAN
SCALE: 100 FEET/DIVISION



VERTICAL SECTION PLANE: S 60.70 E

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

File Name: SHU219KGP

***** RECORD OF SURVEY *****

Calculated by Sii DATADRIL's C.A.D.D.S. System

Radius of Curvature Method
All Angles are Decimal
Vertical Section Plane: S 60.70 E

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGBLE SEVERITY (DEG/100')
1999.00	.50	N 11.00 E	0.00	1999.77	25.39 N	7.47 E	-5.91	26.47	N 15.39 E	0.00
2051.00	2.50	S 63.00 E	62.00	2060.75	26.00 N	8.73 E	-5.11	27.43	N 18.56 E	4.32
2123.00	5.00	S 63.00 E	62.00	2122.61	24.16 N	12.34 E	-1.05	27.13	N 27.06 E	4.03
2185.00	6.00	S 57.00 E	62.00	2184.32	21.19 N	17.49 E	4.88	27.48	N 39.52 E	1.86
2247.00	7.00	S 63.00 E	62.00	2245.92	17.69 N	23.56 E	11.89	29.46	N 57.11 E	1.95
2309.00	7.50	S 53.00 E	62.00	2307.43	13.54 N	30.19 E	19.70	33.09	N 65.84 E	2.19
2371.00	9.00	S 61.00 E	62.00	2368.79	9.70 N	37.64 E	28.57	38.64	N 76.98 E	3.04
2433.00	10.00	S 61.00 E	62.00	2429.93	3.74 N	46.59 E	38.80	46.74	N 85.41 E	1.61
2495.00	11.00	S 62.00 E	62.00	2490.89	1.65 S	56.52 E	50.10	56.55	S 88.33 E	1.64
2557.00	12.00	S 61.00 E	62.00	2551.65	7.55 S	67.38 E	62.46	67.81	S 83.61 E	1.64
2619.00	12.50	S 61.00 E	62.00	2612.24	13.92 S	78.89 E	75.61	80.11	S 79.59 E	.81
2681.00	13.00	S 63.00 E	62.00	2672.71	20.35 S	90.97 E	89.29	93.22	S 77.39 E	1.08
2743.00	14.50	S 61.00 E	62.00	2732.93	27.27 S	103.98 E	104.02	107.50	S 75.31 E	2.54
2805.00	15.00	S 63.00 E	62.00	2792.88	34.68 S	117.92 E	119.80	122.91	S 73.61 E	1.15
2867.00	15.50	S 60.00 E	62.00	2852.70	42.46 S	132.25 E	136.11	138.90	S 72.20 E	1.51
2929.00	15.50	S 63.00 E	62.00	2912.45	50.36 S	146.81 E	152.67	155.21	S 71.07 E	1.29
2989.00	16.00	S 63.00 E	30.00	2941.32	54.06 S	154.06 E	160.81	163.27	S 70.66 E	1.67
2989.00	16.00	S 63.00 E	10.00	2950.93	55.31 S	156.52 E	163.56	166.00	S 70.54 E	0.00
2982.00	15.75	S 62.00 E	13.00	2963.44	56.95 S	159.67 E	167.12	169.53	S 70.37 E	2.85
3045.00	15.25	S 61.00 E	63.00	3024.15	64.98 S	174.47 E	183.95	186.18	S 69.57 E	.90
3108.00	14.75	S 61.00 E	63.00	3085.00	72.89 S	188.73 E	200.26	202.32	S 68.88 E	.79

RECEIVED

SEP 17 1955

U.S. DEPT. OF JUSTICE

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219

SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
3171.00	14.00	S 61.00 E	63.00	3146.03	80.47 S	202.41 E	215.90	217.82	S 68.32 E	1.19
3234.00	13.25	S 60.00 E	63.00	3207.25	87.78 S	215.33 E	230.74	232.53	S 67.82 E	1.25
3297.00	13.50	S 58.00 E	63.00	3268.54	95.27 S	227.82 E	245.30	246.94	S 67.30 E	.83
3360.00	13.00	S 58.00 E	63.00	3329.87	102.94 S	240.06 E	259.73	261.20	S 66.79 E	.79
3423.00	12.25	S 54.00 E	63.00	3391.34	110.64 S	251.48 E	273.45	274.74	S 66.25 E	1.83
3486.00	12.00	S 57.00 E	63.00	3452.94	118.13 S	262.38 E	286.63	287.75	S 65.76 E	1.08
3549.00	11.00	S 56.00 E	63.00	3514.67	125.06 S	272.65 E	299.15	300.15	S 65.38 E	1.62
3612.00	10.75	S 56.00 E	63.00	3576.54	131.71 S	282.71 E	311.00	311.88	S 65.02 E	.40
3675.00	11.00	S 54.00 E	63.00	3638.41	138.53 S	292.44 E	322.52	323.59	S 64.65 E	.72
3738.00	10.75	S 55.00 E	63.00	3700.28	145.43 S	302.12 E	334.64	335.30	S 64.30 E	.50
3801.00	11.00	S 55.00 E	63.00	3762.15	152.16 S	311.72 E	346.48	347.05	S 64.00 E	.50
3864.00	11.25	S 55.00 E	63.00	3823.96	159.05 S	321.93 E	358.59	359.08	S 63.71 E	.50
3927.00	11.25	S 54.00 E	63.00	3885.75	165.18 S	331.64 E	370.80	371.22	S 63.41 E	.51
3990.00	11.75	S 55.00 E	63.00	3947.49	171.48 S	342.17 E	383.29	383.63	S 63.12 E	.65
4053.00	12.00	S 55.00 E	63.00	4009.14	178.91 S	352.78 E	396.19	396.47	S 62.85 E	.40
4116.00	12.50	S 55.00 E	63.00	4070.70	185.58 S	363.73 E	409.49	409.71	S 62.60 E	.79
4179.00	13.50	S 57.00 E	63.00	4132.09	192.50 S	375.48 E	423.61	423.79	S 62.38 E	1.74
4242.00	15.00	S 56.00 E	63.00	4193.15	199.06 S	388.41 E	439.08	439.22	S 62.17 E	2.41
4305.00	16.00	S 55.00 E	63.00	4253.86	214.60 S	402.29 E	455.84	455.95	S 61.92 E	1.64
4354.00	15.00	S 55.00 E	49.00	4300.96	222.35 S	413.35 E	469.28	469.36	S 61.72 E	0.00

BOTTOM HOLE CLOSURE: 469.36 Feet at S 61.72 Degrees E

RECEIVED

DEC 17 1986

OCD
HOBBY OFFICE

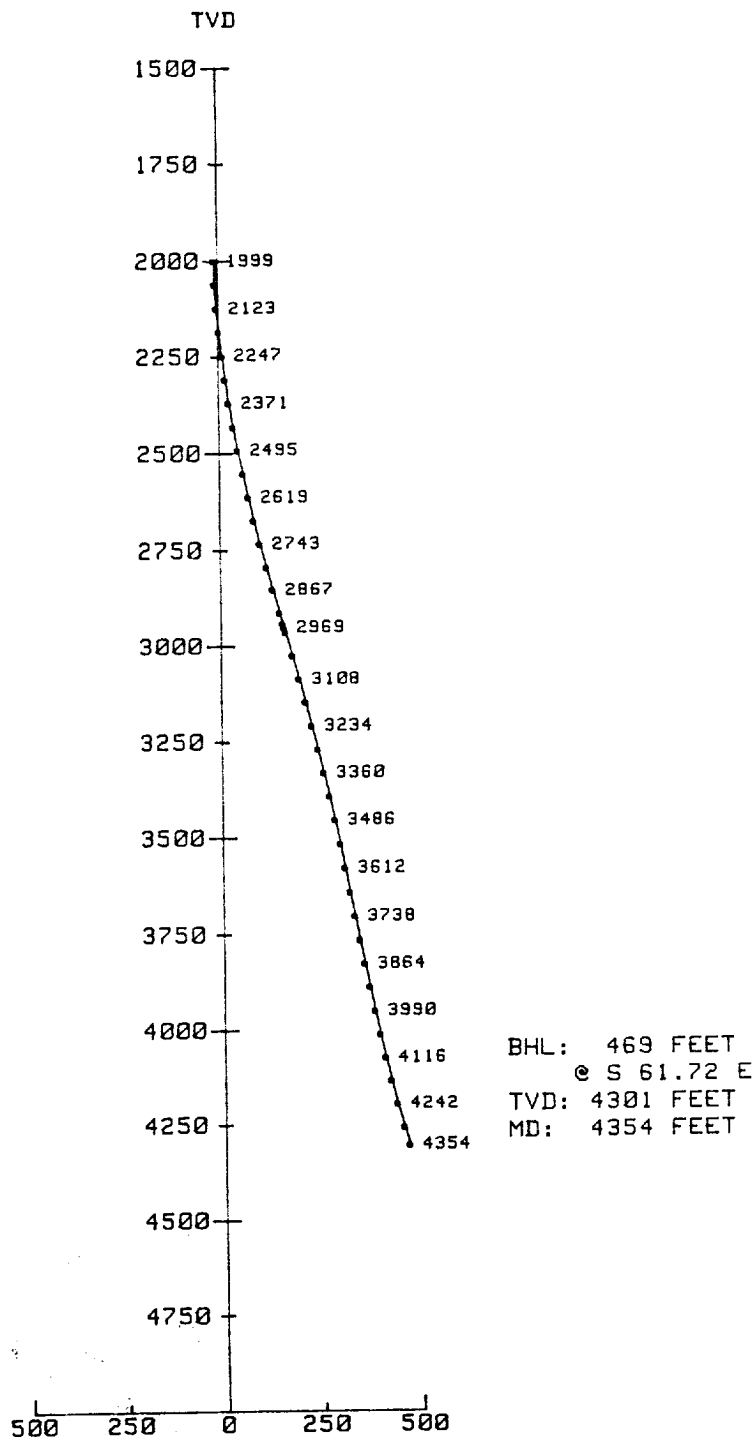
AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

12 DEC 1986 @ 10:02



VERTICAL PLOT

SCALE: 500 FEET/INCH



VERTICAL SECTION
SECTION PLANE: S 60.70 E

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

12 DEC 1986 @ 9:58



DATADRIL

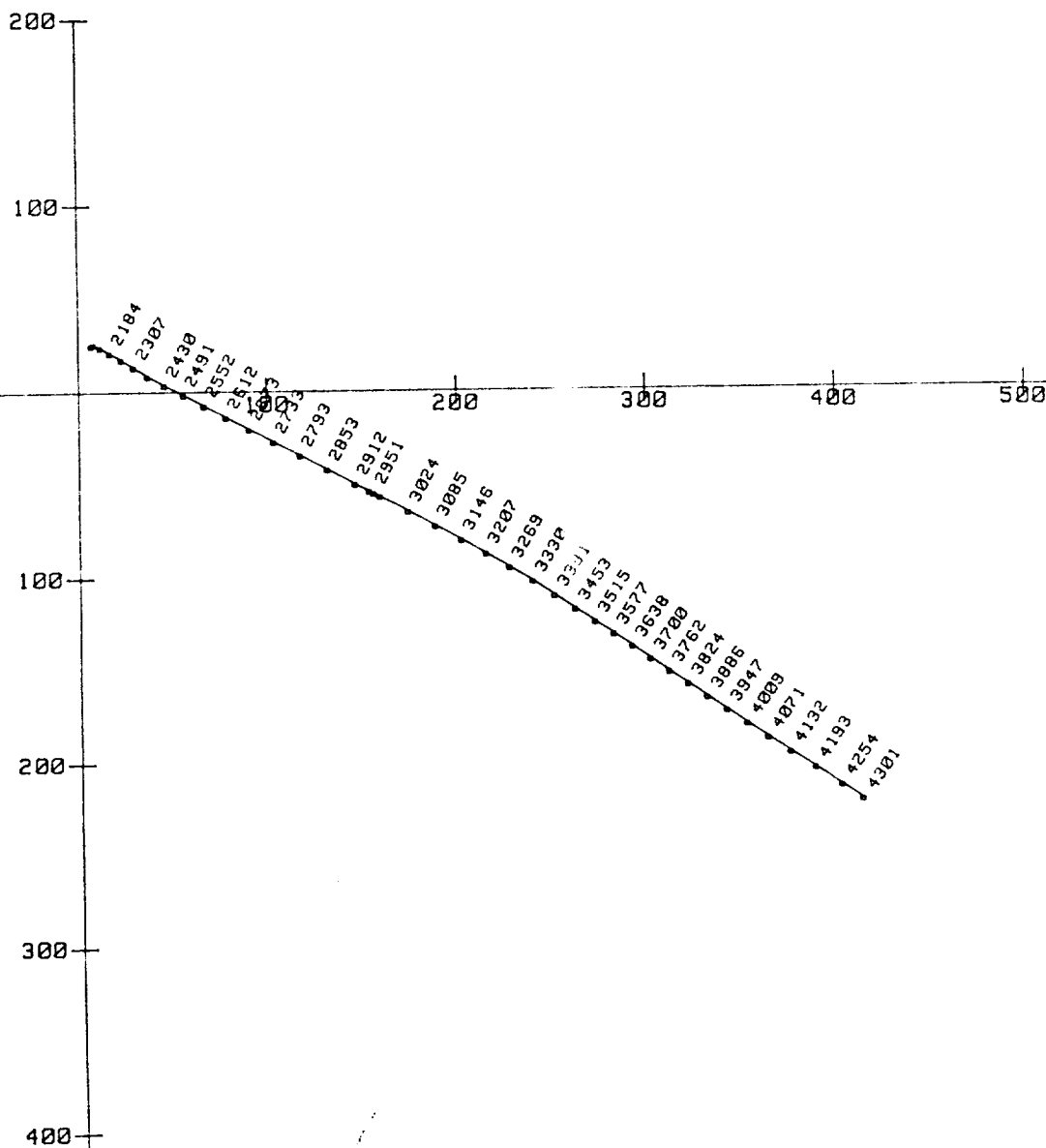
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 100 FEET/INCH

BHL: 469 FEET
@ S 61.72 E
TVD: 4301 FEET
MD: 4354 FEET



RECEIVED

DEC 17 1986

OCD
HOBBS OFFICE

Sii DATADRIL

Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

File Name: SHU219MMS

*** RECORD OF SURVEY ***

Calculated by Sii DATADRIL's C.A.D.S. System

Radius of Curvature Method

All Angles are Decimal

Vertical Section Plane: S 60.70 E

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOUBLE SEVERITY (DEG/100')
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N	0.00 E	0.00	0.00 N	0.00 E	0.00
42.70	.25	N 57.00 W	42.70	42.70	.06 N	.07 W	-.09	.09 N	53.00 W	.59
70.51	.25	N 70.00 W	28.21	70.51	.11 N	.18 W	-.21	.21 N	57.35 W	.26
99.06	.25	N 51.00 W	28.55	99.06	.18 N	.29 W	-.34	.34 N	59.82 W	.29
160.17	.75	N 21.00 E	61.11	160.17	.66 N	.42 W	-.69	.78 N	32.50 W	1.17
221.29	1.00	N 30.00 E	61.11	221.27	1.49 N	0.00 E	-.72	1.49 N	.17 E	.51
282.39	1.00	N 25.00 E	61.11	282.37	2.41 N	.53 E	-.72	2.47 N	12.36 E	.20
343.50	1.00	N 23.00 E	61.11	343.47	3.39 N	.97 E	-.81	3.52 N	16.01 E	.09
404.61	1.00	N 13.00 E	61.11	404.57	4.40 N	1.30 E	-1.02	4.59 N	16.47 E	.29
465.72	1.00	N 14.00 E	61.11	465.67	5.44 N	1.55 E	-1.31	5.65 N	15.91 E	.03
526.83	.75	N 16.00 E	61.11	526.78	6.34 N	1.79 E	-1.54	6.58 N	15.78 E	.41
587.94	1.00	N 11.00 E	61.11	587.83	7.24 N	2.01 E	-1.79	7.52 N	15.50 E	.43
649.05	1.00	N 11.00 E	61.11	649.99	8.29 N	2.21 E	-2.13	8.58 N	14.94 E	0.00
710.16	1.20	N 20.00 E	61.11	710.08	9.42 N	2.53 E	-2.41	9.75 N	15.01 E	.43
771.27	1.00	N 19.00 E	61.11	771.18	10.53 N	2.92 E	-2.61	10.92 N	15.49 E	.33
832.38	.75	N 22.00 E	61.11	832.28	11.40 N	3.24 E	-2.75	11.85 N	15.88 E	.42
893.49	.50	N 20.00 W	61.11	893.39	12.05 N	3.26 E	-3.06	12.43 N	15.12 E	.83
954.60	.50	N 20.00 E	61.11	954.49	12.57 N	3.26 E	-3.31	12.99 N	14.51 E	.56
1015.71	.50	N 20.00 W	61.11	1015.60	13.10 N	3.26 E	-3.57	13.49 N	13.96 E	.56
1076.82	.50	N 22.00 W	61.11	1076.71	13.59 N	3.06 E	-3.98	13.94 N	12.70 E	.03
1137.93	.50	N 5.00 W	61.11	1137.82	14.11 N	2.94 E	-4.34	14.41 N	11.77 E	.24

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219

SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
1199.04	.50	N 5.00 W	61.11	1199.92	14.64 N	2.89 E	-4.64	14.93 N 11.18 E	0.00	
1260.15	.50	N 9.00 E	61.11	1260.93	15.17 N	2.91 E	-4.69	15.45 N 10.86 E	.20	
1321.26	.75	N 11.00 E	61.11	1321.14	15.63 N	3.03 E	-5.11	16.12 N 10.83 E	.41	
1382.37	.50	N 11.00 E	61.11	1382.24	16.48 N	3.16 E	-5.32	16.78 N 10.84 E	.41	
1443.48	.75	N 6.00 W	61.11	1443.35	17.15 N	3.18 E	-5.62	17.44 N 10.52 E	.51	
1504.39	1.00	N 7.00 E	60.91	1504.25	18.08 N	3.19 E	-6.06	18.36 N 10.02 E	.52	
1565.70	1.25	N 7.00 E	61.31	1565.55	19.27 N	3.34 E	-6.52	19.56 N 9.93 E	.41	
1597.00	1.50	N 7.00 E	31.30	1596.84	20.02 N	3.43 E	-6.80	20.31 N 9.73 E	.60	
1629.00	1.50	N 7.00 E	32.00	1628.63	20.85 N	3.53 E	-7.12	21.15 N 9.62 E	0.00	
1669.00	1.00	N 13.00 E	60.00	1668.92	22.14 N	3.76 E	-7.55	22.45 N 9.64 E	.66	
1751.00	1.00	N 17.00 E	62.00	1750.91	23.06 N	4.29 E	-7.94	23.46 N 10.55 E	.94	
1813.00	1.00	N 13.00 E	62.00	1812.80	23.92 N	5.06 E	-7.25	24.36 N 11.99 E	.11	
1875.00	1.00	N 63.00 E	62.00	1874.79	24.47 N	5.92 E	-6.62	25.18 N 13.59 E	.56	
1937.00	1.00	N 77.00 E	62.00	1936.78	24.94 N	6.93 E	-6.11	25.79 N 15.59 E	.39	
1999.00	.50	N 11.00 E	62.00	1998.77	25.39 N	7.47 E	-5.92	26.47 N 16.38 E	1.46	
2061.00	2.50	S 63.00 E	62.00	2060.75	26.01 N	8.72 E	-5.12	27.43 N 16.54 E	4.02	
2123.00	5.00	S 63.00 E	62.00	2122.61	24.17 N	12.34 E	-1.07	27.13 N 27.04 E	4.03	
2185.00	6.00	S 57.00 E	62.00	2184.33	21.20 N	17.48 E	4.67	27.48 N 39.51 E	1.66	
2247.00	7.00	S 63.00 E	62.00	2245.93	17.69 N	23.56 E	11.39	29.46 N 53.10 E	1.95	
2309.00	7.50	S 53.00 E	62.00	2307.43	13.55 N	30.18 E	19.69	32.08 N 65.83 E	2.15	
2371.00	9.00	S 61.00 E	62.00	2368.79	8.71 N	37.64 E	26.58	38.63 N 76.97 E	3.04	
2433.00	10.00	S 61.00 E	62.00	2429.94	3.75 N	46.59 E	38.79	46.74 N 85.40 E	1.61	
2495.00	11.00	S 62.00 E	62.00	2490.90	1.64 S	56.52 E	50.09	56.54 S 88.33 E	1.64	
2557.00	12.00	S 61.00 E	62.00	2551.65	7.54 S	67.38 E	62.45	67.50 S 83.61 E	1.64	
2619.00	12.50	S 61.00 E	62.00	2612.24	13.92 S	78.89 E	75.61	80.10 S 79.99 E	.81	
2681.00	13.00	S 63.00 E	62.00	2672.71	20.34 S	90.97 E	89.29	93.21 S 77.39 E	1.08	
2743.00	14.50	S 61.00 E	62.00	2732.93	27.26 S	103.98 E	104.02	107.49 S 75.31 E	2.54	
2805.00	15.00	S 63.00 E	62.00	2792.89	34.67 S	117.91 E	119.80	122.91 S 73.61 E	1.15	
2867.00	15.50	S 60.00 E	62.00	2852.71	42.45 S	132.24 E	136.10	138.99 S 72.20 E	1.51	
2929.00	15.50	S 63.00 E	62.00	2912.45	50.36 S	146.60 E	152.67	155.20 S 71.07 E	1.29	
2959.00	16.00	S 63.00 E	30.00	2941.32	54.05 S	154.06 E	160.80	163.27 S 70.67 E	1.67	
2969.00	16.00	S 63.00 E	10.00	2950.94	55.31 S	156.51 E	163.56	166.00 S 70.54 E	0.00	
2982.00	15.75	S 62.00 E	13.00	2963.44	56.95 S	159.67 E	167.11	169.52 S 70.37 E	2.85	

RECEIVED

DEC 17 1945

U.S. AIR FORCE
OFFICE OF THE
JUDGE ADVOCATE GENERAL

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219

SEC 3-T195-R38E
LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
3045.00	15.25	S 61.00 E	63.00	3024.15	64.98 S	174.46 E	183.95	185.17	S 69.57 E	.50
3108.00	14.75	S 61.00 E	63.00	3085.00	72.39 S	188.73 E	200.25	202.31	S 68.88 E	.79
3171.00	14.00	S 61.00 E	63.00	3146.03	80.47 S	202.41 E	215.89	217.81	S 68.32 E	1.17
3234.00	13.25	S 60.00 E	63.00	3207.26	87.78 S	215.32 E	230.73	232.53	S 67.92 E	1.25
3297.00	13.50	S 58.00 E	63.00	3268.55	95.23 S	227.81 E	245.30	246.94	S 67.30 E	.93
3360.00	13.00	S 58.00 E	63.00	3329.87	102.93 S	240.06 E	259.72	261.20	S 66.79 E	.79
3423.00	12.25	S 54.00 E	63.00	3391.35	110.63 S	251.47 E	273.44	274.73	S 66.25 E	1.83
3486.00	12.00	S 57.00 E	63.00	3452.94	118.13 S	262.39 E	286.62	287.74	S 65.76 E	1.08
3549.00	11.00	S 56.00 E	63.00	3514.68	125.06 S	272.85 E	299.15	300.14	S 65.38 E	1.62
3582.00	10.75	S 56.00 E	63.00	3576.54	131.71 S	282.70 E	310.99	311.88	S 65.02 E	.40
3675.00	11.00	S 54.00 E	63.00	3638.41	138.52 S	292.44 E	322.82	323.59	S 64.65 E	.72
3738.00	10.75	S 55.00 E	63.00	3700.28	145.42 S	302.12 E	334.63	335.29	S 64.30 E	.60
3801.00	11.00	S 56.00 E	63.00	3762.15	152.16 S	311.91 E	346.47	347.05	S 64.00 E	.50
3864.00	11.25	S 55.00 E	63.00	3823.97	159.04 S	321.93 E	358.58	359.07	S 63.71 E	.59
3927.00	11.25	S 54.00 E	63.00	3885.75	166.18 S	331.94 E	370.80	371.21	S 63.41 E	.71
3990.00	11.75	S 55.00 E	63.00	3947.49	173.47 S	342.16 E	383.28	383.62	S 63.12 E	.85
4053.00	12.00	S 55.00 E	63.00	4009.14	180.91 S	352.78 E	396.19	396.46	S 62.85 E	.40
4116.00	12.50	S 55.00 E	63.00	4070.71	188.58 S	363.73 E	409.48	409.71	S 62.60 E	.79
4179.00	13.50	S 57.00 E	63.00	4132.09	196.50 S	375.48 E	423.61	423.79	S 62.33 E	1.74
4242.00	15.00	S 56.00 E	63.00	4193.15	205.06 S	388.41 E	439.07	439.22	S 62.17 E	2.41
4305.00	16.00	S 55.00 E	63.00	4253.86	214.59 S	402.23 E	455.34	455.94	S 61.92 E	1.64
4364.00	16.00	S 55.00 E	49.00	4300.96	222.34 S	413.35 E	469.28	469.35	S 61.72 E	0.00

BOTTOM HOLE CLOSURE: 469.35 Feet at S 61.72 Degrees E

RECEIVED

DEC 17 1986

OCD
HOBBS OFFICE

AMOCO PRODUCTION COMPANY
 SOUTH HOBBS UNIT #219
 SEC 3-T19S-R38E
 LEA COUNTY, NEW MEXICO

12 DEC 1986 @ 9:39

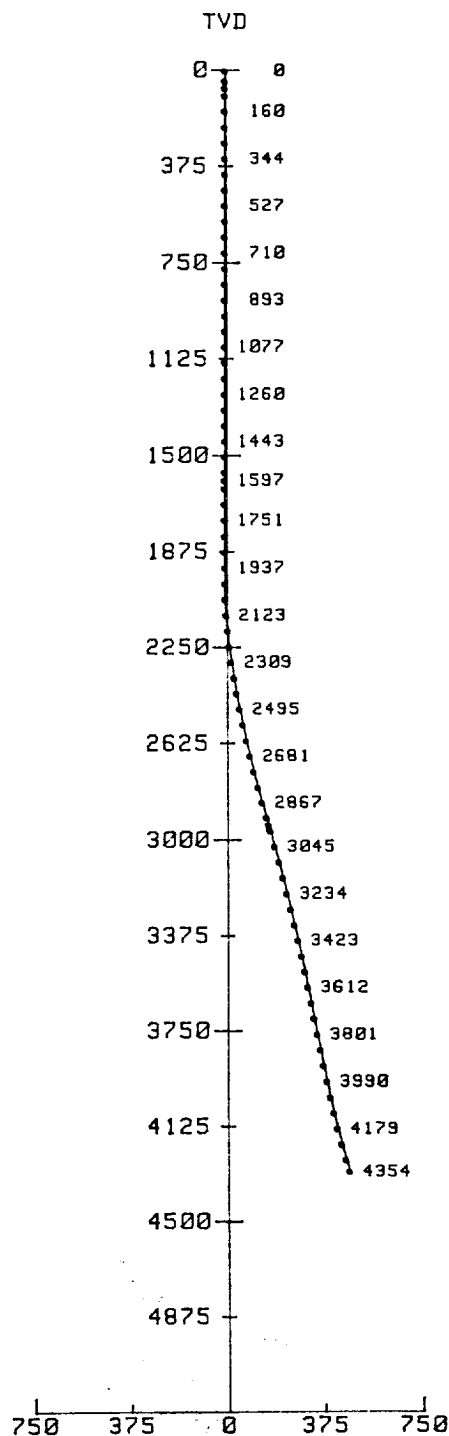


DATADRIL

Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 750 FEET/INCH



BHL: 469 FEET
 @ S 61.72 E
 TVD: 4301 FEET
 MD: 4354 FEET

VERTICAL SECTION
 SECTION PLANE: S 60.70 E

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

12 DEC 1986 @ 9:34

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT #219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO



DATADRIL

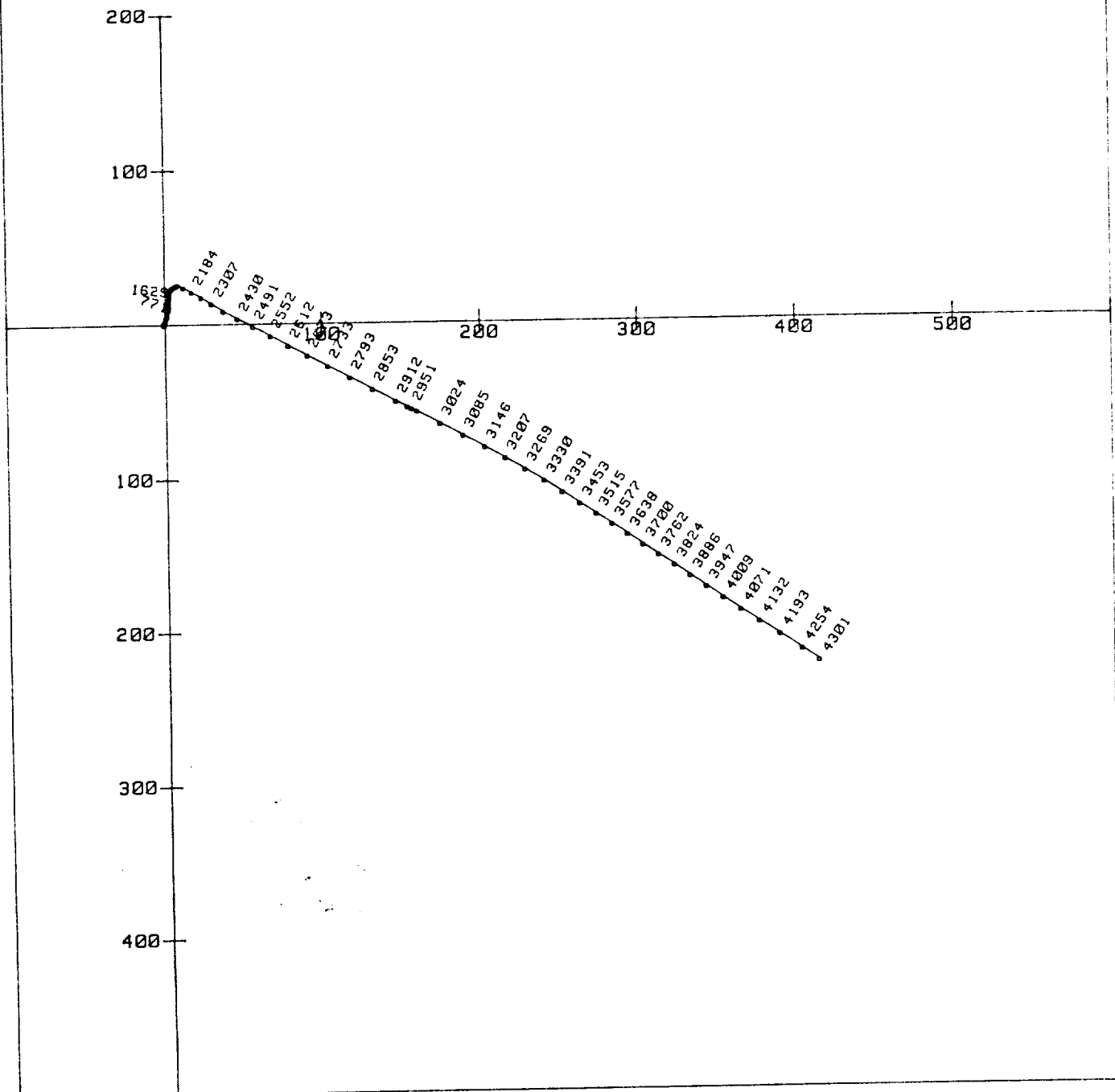
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 100 FEET/INCH

BHL: 469 FEET
@ S 61.72 E
TVD: 4301 FEET
MD: 4354 FEET



RECEIVED

DEC 17 1985

OCD
HONORARY OFFICE

12 DEC 1986 @ 10:34

AMOCO PRODUCTION CO.
SHU 219
SEC 3-T19S-R38E
LEA COUNTY, NEW MEXICO

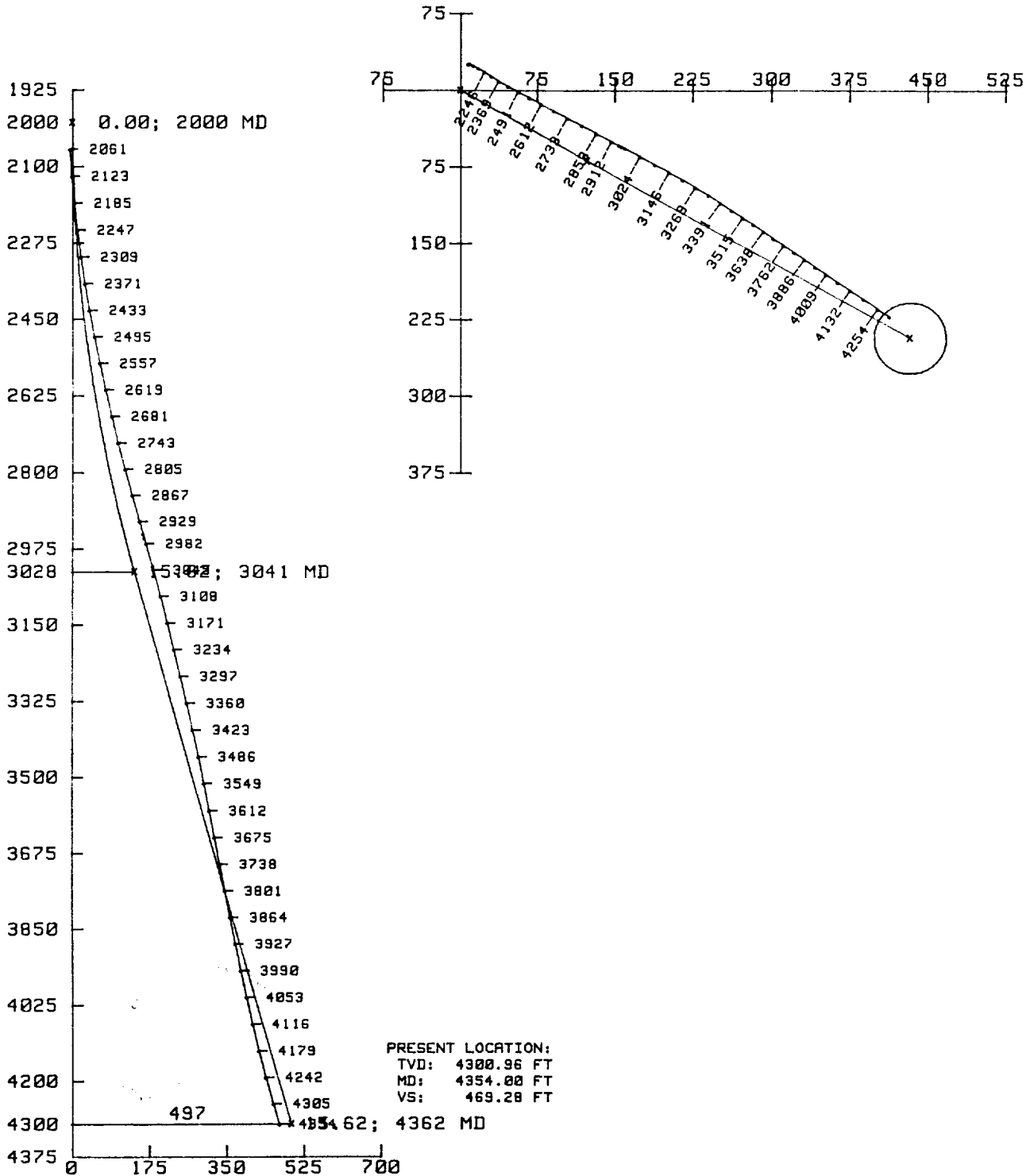


DATADRIL

Division of Smith International, Inc.

VERTICAL PLANE
SCALE: 175 FEET/DIVISION

HORIZONTAL PLANE
SCALE: 75 FEET/DIVISION



VERTICAL SECTION PLANE: S 60.70 E

RECEIVED

DEC 17 1986

**OCD
HOBBS OFFICE**

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-12
Effective 1-1-65

All distances must be from the outer boundaries of the Section

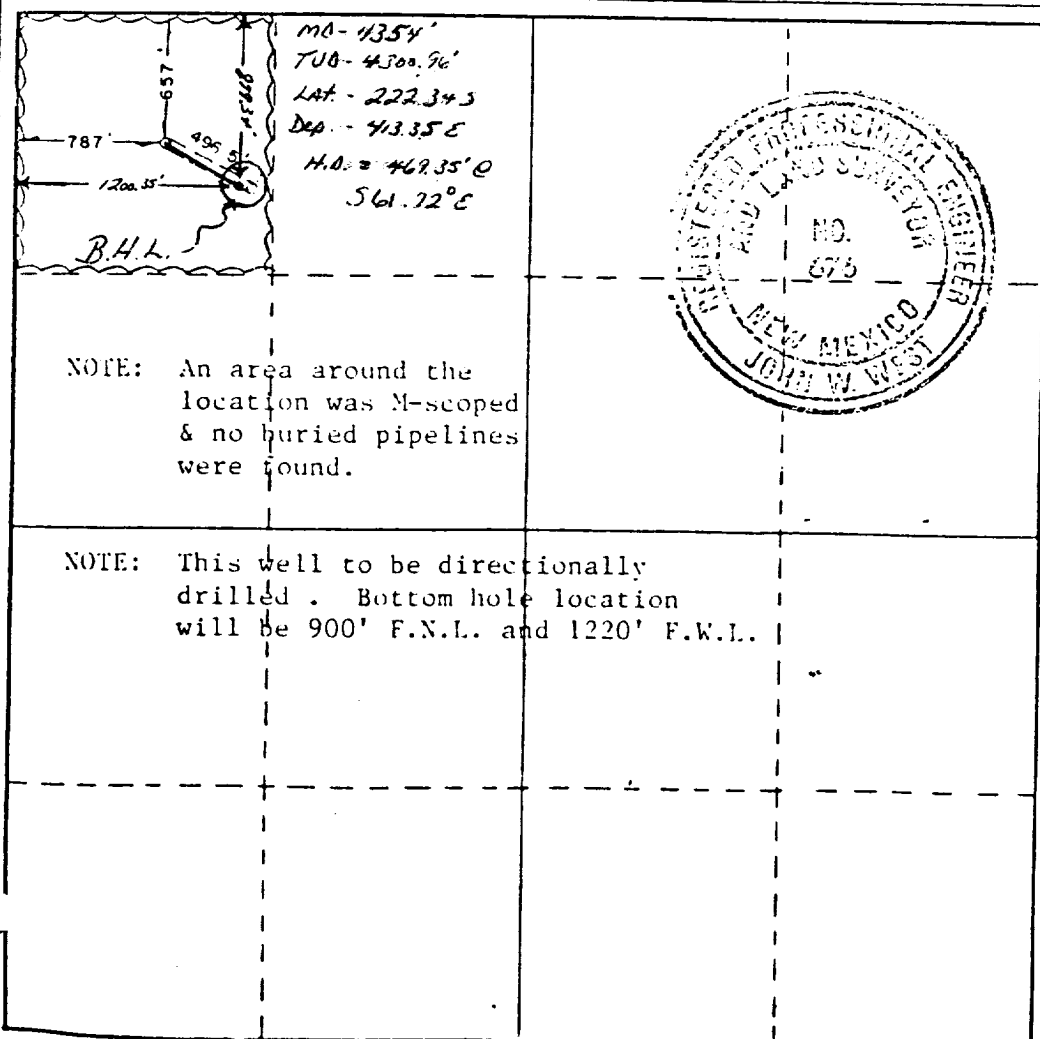
Operator Amoco Production Company			Lease South Hobbs (G-SA) Unit		Well No. 219
Unit Letter D	Section 3	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well:					
657 feet from the North line and		787 feet from the West line			
Ground Level Elev. 3628.0'	Producing Formation Grayburg - San Andres		Pool Hobbs GSA	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Steve Brunkle
Position Administrative Analyst

Company Amoco Production Company

Date September 5, 1986

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.

Date Surveyed July 11, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. JOHN W. WEST, 676

RONALD J. EIDSON, 3239

RECEIVED
DEC 1 - 1986
G.S.O.
HOBBS OFFICE

Sii DATADRIL Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

MAGNETIC MULTISHOT
10 EAST
S-60.70-E
SURVEYOR- GARRY HENDRIX

NOVEMBER 11, 1986

File Name: AMOCO219

***** RECORD OF SURVEY *****

Calculated by Sii DATADRIL's C.A.D.O.S. System

Radius of Curvature Method

All Angles are Decimal

Vertical Section Plane: S 60.00 E

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	COURSE DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	TOTAL RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	CUMULATIVE DISTANCE (FT)	DIRECTION (DEG)	DOUBLES SLOPE DEG/100'
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
42.30	.25	N 53.00 W	42.30	42.30	.36 N .07 W	-0.09	.09	N 53.00 W	.57
70.51	.25	N 70.00 W	28.21	70.51	.11 N .18 W	-0.21	.21	N 57.85 W	.06
99.06	.25	N 51.00 W	28.55	99.06	.13 N .29 W	-0.24	.24	N 58.82 W	.29
160.17	.75	N 21.00 E	61.11	160.17	.66 N .42 W	-0.69	.78	N 32.50 W	1.17
221.28	1.00	N 37.00 E	61.11	221.27	1.49 N 0.00 E	-0.74	1.49	N 1.17 E	.21
282.39	1.00	N 26.00 E	61.11	282.37	2.41 W .53 E	-0.75	2.47	N 12.73 E	.20
343.50	1.00	N 27.00 E	61.11	343.47	3.59 W .87 E	-0.88	3.82	N 16.11 E	.19
404.61	1.00	N 17.00 E	61.11	404.57	4.40 W 1.20 E	-1.07	4.89	N 16.47 E	.19
465.72	1.00	N 14.00 E	61.11	465.67	5.44 N 1.35 E	-1.08	5.65	N 10.91 E	.03
526.83	.75	N 16.00 E	61.11	526.78	6.34 N 1.79 E	-1.62	6.56	N 15.73 E	.41
587.94	1.00	N 11.00 E	61.11	587.68	7.24 N 2.01 E	-1.68	7.52	N 15.50 E	.43
649.05	1.00	N 11.00 E	61.11	648.88	8.29 N 2.21 E	-2.27	8.58	N 14.94 E	0.00
710.16	1.20	N 20.00 E	61.11	710.08	9.42 N 2.53 E	-2.52	9.75	N 15.01 E	.43
771.27	1.00	N 19.00 E	61.11	771.18	10.53 N 2.92 E	-2.74	10.92	N 15.49 E	.33
832.38	.75	N 22.00 E	61.11	832.28	11.40 N 3.24 E	-2.89	11.85	N 15.88 E	.42
893.49	.50	N 20.00 W	61.11	893.39	12.55 N 3.26 E	-3.21	12.48	N 15.12 E	.63
954.60	.50	N 20.00 E	61.11	954.49	12.57 N 3.26 E	-3.47	12.99	N 14.51 E	.56
1015.71	.50	N 20.00 W	61.11	1015.60	13.10 N 3.26 E	-3.73	13.47	N 13.96 E	.56
1076.82	.50	N 22.00 W	61.11	1076.71	13.59 N 3.06 E	-4.14	13.98	N 12.70 E	.03
1137.93	.50	N 5.00 W	61.11	1137.82	14.11 N 2.94 E	-4.51	14.41	N 11.77 E	.24

RECEIVED
DEC 1 - 1986
C. S. S.
HOBBS OFFICE

Sii DATADRIL
Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219

LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L D S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLED SEVERITY (DEG/100')
1199.04	.50	N 5.00 W	61.11	1198.62	11.34 N	2.39 E	-4.82	14.93 N 11.18 E	0.00
1260.15	.50	N 7.00 E	61.11	1259.97	11.17 N	2.91 E	-5.06	15.45 N 10.36 E	.30
1321.26	.75	N 11.00 E	61.11	1321.14	10.13 N	3.03 E	-5.29	16.12 N 10.33 E	.41
1382.37	.50	N 11.00 E	61.11	1382.24	9.09 N	3.16 E	-5.51	16.78 N 10.34 E	.41
1443.48	.75	N 6.00 W	61.11	1443.35	7.15 N	3.18 E	-5.82	17.44 N 10.52 E	.51
1504.59	1.00	N 7.00 E	60.91	1504.28	5.18 N	3.19 E	-6.27	18.36 N 10.92 E	.52
1565.70	1.25	N 7.00 E	61.01	1565.55	3.17 N	3.24 E	-6.74	19.56 N 9.82 E	.41
1597.00	1.50	N 7.00 E	61.00	1596.64	1.12 N	3.43 E	-7.04	20.71 N 9.72 E	.60
1628.00	1.50	N 7.00 E	62.00	1623.83	1.15 N	3.53 E	-7.36	21.15 N 9.62 E	0.00
1689.10	1.00	N 13.00 E	60.00	1688.62	1.14 N	3.76 E	-7.51	22.15 N 9.54 E	.36
1751.00	1.00	N 47.00 E	62.00	1751.81	1.14 N	4.28 E	-7.81	23.45 N 10.55 E	.34
1812.00	1.00	N 43.00 E	62.00	1812.50	1.14 N	5.06 E	-7.87	24.33 N 11.57 E	.11
1873.00	1.00	N 63.00 E	62.00	1874.79	1.14 N	5.92 E	-7.11	25.13 N 13.59 E	.56
1937.00	1.00	N 77.00 E	62.00	1936.78	1.14 N	6.93 E	-6.42	25.79 N 15.59 E	.77
1999.00	.50	N 11.00 E	62.00	1998.77	1.14 N	7.47 E	-6.23	26.47 N 16.33 E	1.48
2060.00	2.50	S 63.00 E	62.00	2060.75	2.11 N	8.72 E	-5.45	27.43 N 18.54 E	4.02
2122.00	5.00	S 63.00 E	62.00	2122.61	2.17 N	12.34 E	-1.40	27.13 N 27.34 E	4.67
2185.00	6.00	S 57.00 E	62.00	2184.73	2.13 N	17.45 E	-4.34	27.48 N 39.51 E	1.56
2247.00	7.00	S 53.00 E	62.00	2245.93	1.14 N	23.38 E	-11.56	29.46 N 53.10 E	1.75
2309.00	7.50	S 53.00 E	62.00	2307.43	1.14 N	30.18 E	-19.07	30.05 N 55.83 E	2.19
2371.00	9.00	S 61.00 E	62.00	2368.79	1.14 N	37.64 E	-26.24	33.53 N 75.57 E	2.04
2433.00	10.00	S 61.00 E	62.00	2429.94	3.75 N	46.59 E	-28.47	46.74 N 85.40 E	1.51
2495.00	11.00	S 62.00 E	62.00	2490.90	1.34 S	55.52 E	-49.77	56.54 S 68.33 E	1.64
2557.00	12.00	S 61.00 E	62.00	2551.65	7.54 S	67.38 E	-62.12	67.30 S 63.61 E	1.64
2619.00	12.50	S 61.00 E	62.00	2612.24	13.92 S	78.89 E	-75.28	80.10 S 79.99 E	.81
2681.00	13.00	S 63.00 E	62.00	2672.71	20.34 S	90.97 E	-68.95	90.21 S 77.39 E	1.06
2743.00	14.50	S 61.00 E	62.00	2732.93	27.26 S	103.98 E	-103.68	107.49 S 75.31 E	2.54
2805.00	15.00	S 63.00 E	62.00	2792.89	34.67 S	117.91 E	-119.45	122.91 S 70.61 E	1.15
2867.00	15.50	S 60.00 E	62.00	2852.71	42.45 S	132.24 E	-125.75	136.89 S 72.20 E	1.51
2929.00	15.50	S 63.00 E	62.00	2912.45	50.76 S	146.80 E	-152.31	155.20 S 71.07 E	1.29
2959.00	16.00	S 63.00 E	30.00	2941.32	54.95 S	154.06 E	-160.45	165.27 S 70.67 E	1.67
2969.00	16.00	S 63.00 E	10.00	2950.94	55.31 S	156.51 E	-163.20	166.00 S 70.54 E	0.00
2982.00	15.75	S 62.00 E	13.00	2963.44	55.95 S	159.67 E	-166.75	169.52 S 70.37 E	2.85

Sii DATADRIL

Division of Smith International, Inc.

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219

LEA COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGBLE SEVERITY (DEG/100')
3045.00	15.25	S 61.00 E	63.00	3024.15	64.98 S	174.46 E	182.38	186.17	S 69.57 E	.90
3102.00	14.70	S 61.00 E	63.00	3055.40	73.69 S	189.73 E	179.33	202.31	S 68.68 E	.77
3171.00	14.50	S 61.00 E	63.00	3146.03	80.47 S	202.41 E	215.52	217.61	S 68.32 E	1.19
3234.00	13.25	S 60.00 E	63.00	3207.26	87.76 S	215.32 E	200.76	232.53	S 67.82 E	1.25
3297.00	13.50	S 58.00 E	63.00	3268.55	95.28 S	227.31 E	244.83	246.74	S 67.30 E	.83
3360.00	13.00	S 58.00 E	63.00	3329.87	102.93 S	240.06 E	255.36	261.20	S 66.79 E	.79
3423.00	12.25	S 54.00 E	63.00	3391.35	110.63 S	251.47 E	273.10	274.73	S 66.25 E	1.63
3486.00	12.00	S 57.00 E	63.00	3452.94	118.13 S	262.78 E	295.23	287.74	S 65.73 E	1.08
3549.00	11.00	S 56.00 E	63.00	3514.63	125.06 S	272.85 E	299.82	309.14	S 65.39 E	1.62
3582.00	10.75	S 56.00 E	63.00	3575.84	131.71 S	282.70 E	310.48	311.82	S 65.02 E	.40
3615.00	11.50	S 54.00 E	63.00	3638.41	138.52 S	292.44 E	322.52	323.69	S 64.65 E	.72
3678.00	10.75	S 55.00 E	63.00	3700.23	145.42 S	302.12 E	334.05	333.28	S 64.33 E	.50
3801.00	11.00	S 58.00 E	63.00	3762.15	152.16 S	311.91 E	345.20	347.85	S 64.00 E	.50
3864.00	11.25	S 55.00 E	63.00	3823.97	159.04 S	321.93 E	358.32	359.07	S 63.61 E	.50
3927.00	11.25	S 54.00 E	63.00	3885.75	166.13 S	331.54 E	370.55	371.21	S 63.41 E	.51
3990.00	11.75	S 55.00 E	63.00	3947.49	173.47 S	342.16 E	383.66	383.62	S 63.12 E	.65
4053.00	12.00	S 55.00 E	63.00	4009.14	180.91 S	352.78 E	395.97	396.46	S 62.88 E	.40
4116.00	12.50	S 55.00 E	63.00	4070.71	188.58 S	363.73 E	409.23	409.71	S 62.60 E	.77
4179.00	13.50	S 57.00 E	63.00	4132.09	196.39 S	375.43 E	421.42	421.79	S 62.35 E	1.74
4242.00	15.00	S 58.00 E	63.00	4193.16	205.16 S	386.41 E	433.70	433.22	S 62.17 E	2.41
4305.00	16.00	S 55.00 E	63.00	4253.36	214.59 S	402.13 E	435.68	435.64	S 61.92 E	1.64
4354.00	16.00	S 55.00 E	49.00	4300.96	222.34 S	413.35 E	449.14	465.33	S 61.72 E	0.00

BOTTOM HOLE CLOSURE: 469.33 Feet at S 61.72 Degrees E

RECEIVED
DEC 1 - 1986
HOBBS OFFICE

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

26 NOV 1986 @ 8:31



DATA DRILL

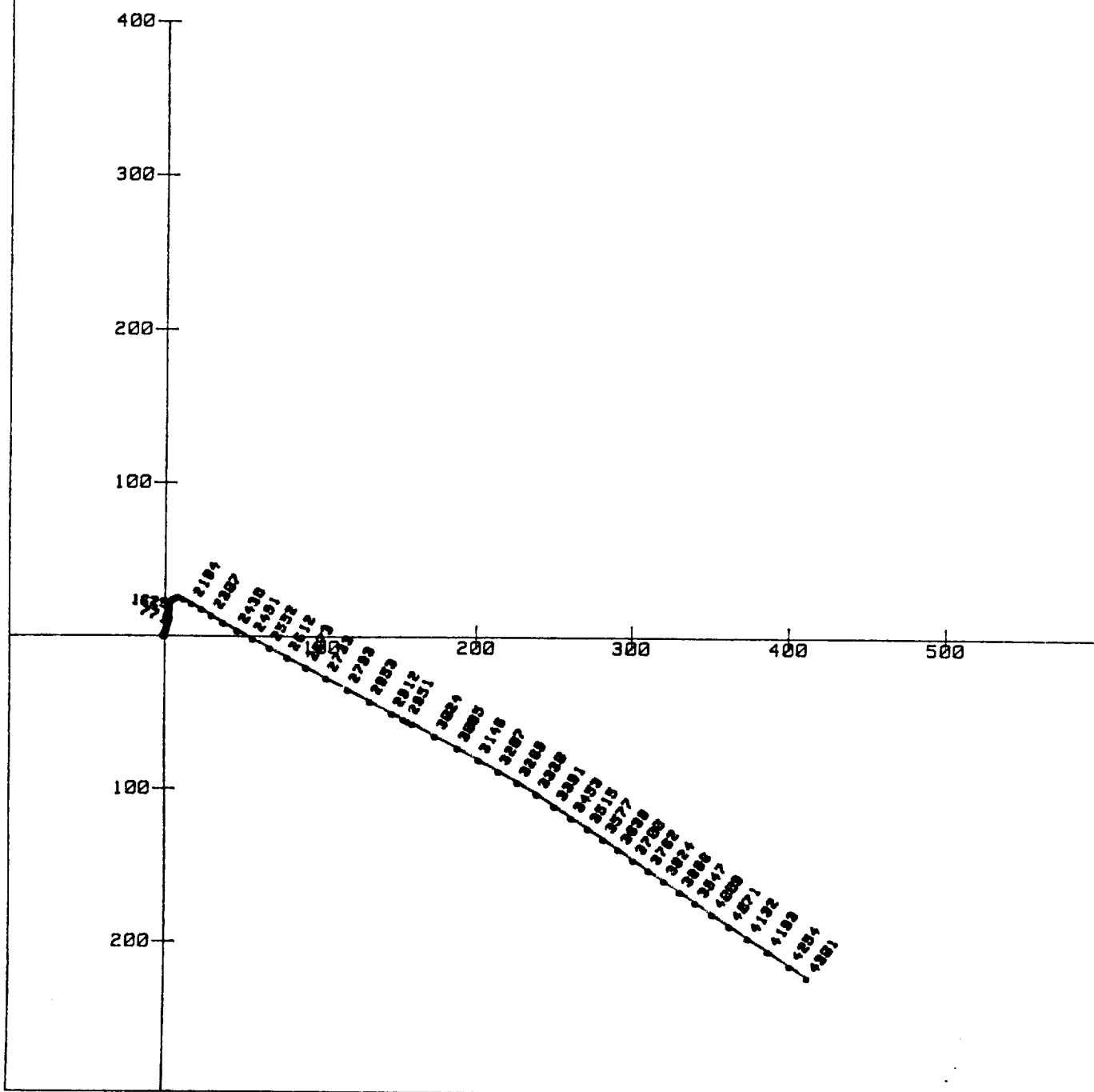
Division of Smith International, Inc.

HORIZONTAL PLOT



SCALE: 100 FEET/INCH

BHL: 469 FEET
@ S 61.72 E
TVD: 4301 FEET
MD: 4354 FEET



AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT # 219
LEA COUNTY, NEW MEXICO

26 NOV 1986 @ 8:34

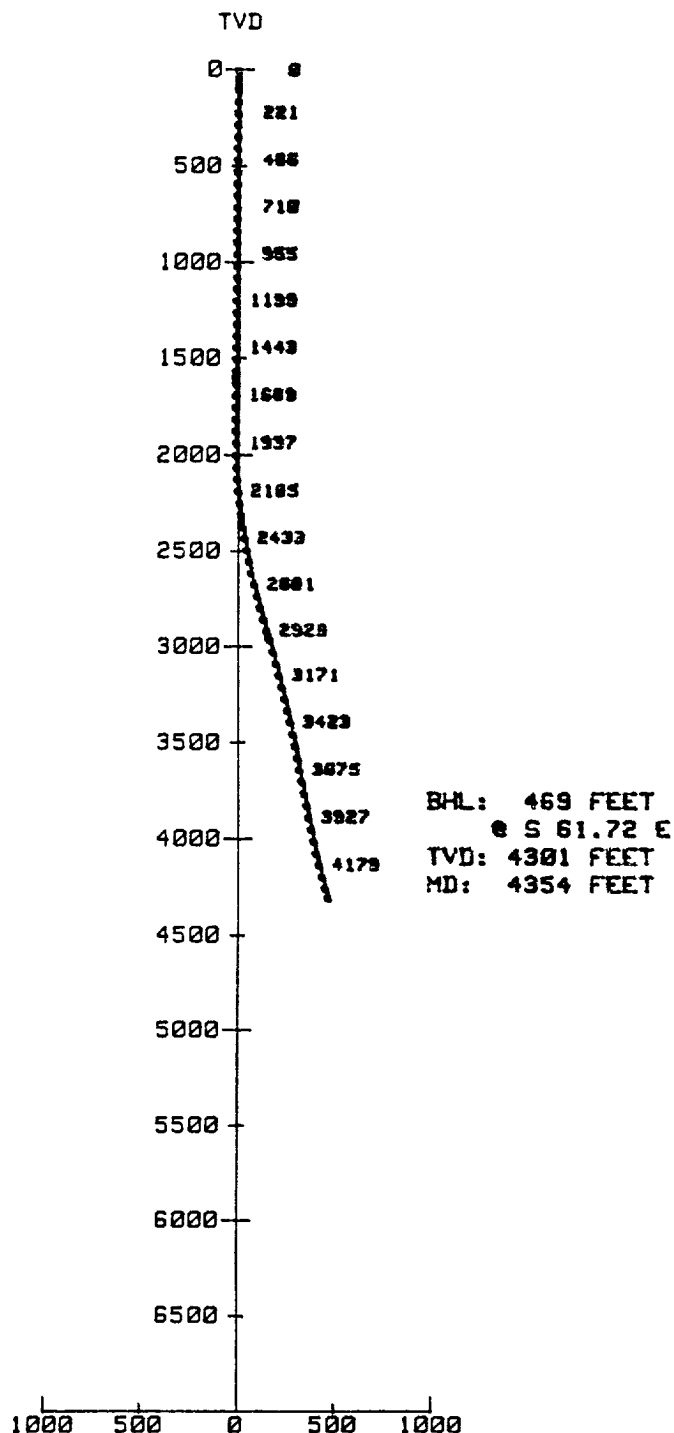


DATADRIL

Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 1000 FEET/INCH



VERTICAL SECTION
SECTION PLANE: S 60.00 E

RECEIVED
DEC 1 - 1986
C. J. F.
HOBBS OFFICE

SMITH DRILLING SYSTEMS

SURVEY CERTIFICATION

COMPANY AMOCO PRODUCTION COMPANY WELL NAME & NO. SOUTH HOBBS UNIT # 219
DATE of CERTIFICATION 11-08-86 LOCATION LEA COUNTY, NEW MEXICO
TYPE of SURVEY MAGNETIC MULTISHOT FROM SURFACE TO 1629'
JOB NUMBER 08611022 TICKET NUMBER 5129

THE ABOVE SURVEY WAS PERFORMED BY ME ON NOVEMBER 07 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE
TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

GARRY HENDRIX 
SURVEYOR

FILM TRANSFER RECEIPT

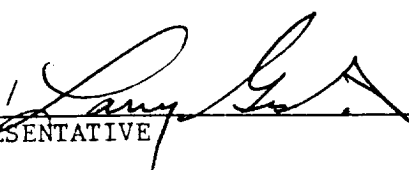
I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE SURVEY.

DATE RECEIVED 19 _____

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING
TO CURRENT SMITH DRILLING SYSTEMS STANDARDS.

LARRY GIST 
S.D.S. REPRESENTATIVE

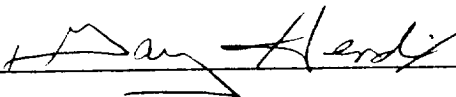
RECEIVED
DEC 1 - 1986
C. C. B.
HOBBY OFFICE

SMITH DRILLING SYSTEMS

SURVEY CERTIFICATION

COMPANY AMOCO PRODUCTION COMPANY WELL NAME & NO. SOUTH HOBBS UNIT # 219
DATE of CERTIFICATION 11-12-86 LOCATION LEA COUNTY, NEW MEXICO
TYPE of SURVEY MAGNETIC MULTISHOT FROM 1629' TO 2969'
JOB NUMBER 008611022 TICKET NUMBER 5131

THE ABOVE SURVEY WAS PERFORMED BY ME ON NOVEMBER 11 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE
TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

GARRY HENDRIX 
SURVEYOR

FILM TRANSFER RECEIPT

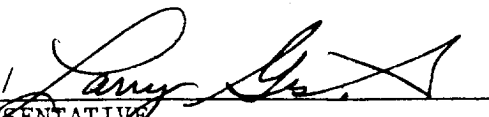
I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE SURVEY.

DATE RECEIVED 19

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING
TO CURRENT SMITH DRILLING SYSTEMS STANDARDS.

LARRY GIST / 
S.D.S. REPRESENTATIVE

DEC 1 - 1966
100-100000

SCIENTIFIC DRILLING CONTROLS

SURVEY CERTIFICATION

COMPANY Amoco Production Co. WELL NAME & NO. S.H.U. 219
DATE of CERTIFICATION 11-16-86 LOCATION Lea Co., New Mexico
TYPE of SURVEY Magnetic Multi Shot FROM 2969' TO 4354'
JOB NUMBER 132M1186053 TICKET NUMBER _____

THE ABOVE SURVEY WAS PERFORMED BY ME ON Nov. 15, 19 86
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED
STANDARDS AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

David Meach
SURVEYOR

FILM TRANSFER RECEIPT

I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE
SURVEY.

DATE RECEIVED 19____

COMPANY REPRESENTATIVE

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS
ACCEPTABLE ACCORDING TO CURRENT SCIENTIFIC DRILLING CONTROLS STANDARDS.

D. A. Roberts
S.D.C. REPRESENTATIVE

RECEIVED
DEC 1 - 1986
C.C.D.
HOBBS OFFICE

WRS COMPLETION REPORT

COMPLETIONS SEC 3 TWP 19S RGE 38E
PI# 30-T-0025 01/19/87 30-025-29757-0000 PAGE 1

NMEX LEA * 657FNL 787FWL SEC NW NW
STATE COUNTY FOOTAGE SPOT
AMOCO PROD IW IW
OPERATOR SOUTH HOBBS (GBSA) UNIT WELL CLASS INIT FIN
WI-219 LEASE NAME
WELL NO. HOBBS
3640KB 3628GR FIELD/POOL AREA
OPER ELEV API 30-025-29757-0000

LEASE TYPE/NO. PERMIT OR WELL I.D. NO. W-INJ
11/04/1986 11/25/1986 ROTARY STATUS
SPUD DATE COMP. DATE TYPE TOOL
4300 GRBG-SAD CACTUS DRLG 54 RIG SUB 11
PROJ. DEPTH PROJ. FORM CONTRACTOR FM/TD SN ANDRS
DTD 4353 PB 4348
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

HOBBS TOWNSITE

PROPOSED TVD AND BOTTOM HOLE LOCATION
4300MD 900S 1220E
BH LOC MEASURED FROM 900 FNL 1220 FWL OF SEC

CASING/LINER DATA

CSG 14 @ 40 W/ 8 SACKS
CSG 8 5/8 @ 1641 W/ 1000 SACKS
CSG 5 1/2 @ 4353 W/ 900 SACKS

TUBING DATA

TBG 2 3/8 AT 4031

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	RUSTLER		1640	2000
LOG	SALT		1690	1950
LOG	YATES		2788	852
LOG	GRAYBURG		3955	-315
LOG	SN ANDRS		4048	-408

PRODUCTION TEST DATA

SN ANDRS PERF 4156- 4273
PERF 4156- 4273

CONTINUED IC# 300257025986

Petroleum Information

Copyrighted 1987
Reproduction
Prohibited

DB a company of
The Dun & Bradstreet Corporation

PI-WRS-GE1
Form No 187

COMPLETIONS
PI# 30-T-0025 01/19/87 SEC 3 TWP 19S RGE 38E
30-025-29757-0000 PAGE 2

AMOCO PROD
WI-219

SOUTH HOBBS (GBSA) UNIT

IW IW

PRODUCTION TEST DATA

ACID 4156- 4273 1500GALS
15% HCL

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS
LOGS
LOGS

DLL
FDC
RFT

0- 4346

MSFL
GR
CBL

CNL
CALP

DRILLING PROGRESS DETAILS

AMOCO PROD
BOX 68
HOBBS, NM 88240
505-393-2167
WATER INJECTION WELL
DIRECTIONAL WELL
09/11 LOC/1986/
11/07 DRLG 965
11/14 DRLG 3918
11/20 4353 TD, PB 4348, PREP PERF
01/12 TD REACHED 11/16/86 RIG REL 11/17/86
4353 TD, PB 4348
COMP 11/25/86, WIW
INJ ZONE - SAN ANDRES 4156-4273
NO CORES OR DSTS RPTD