SCHEMIT OF METHOD IN TO. HIPLONO, TEXAS

MAGNETIC PIRECTIONAL SURVEY =

ANUCO PRODUCTION CO. 安徽以京本京北京京京京京京京京京京京京京

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132M1186014

100 146301

LEA COUNTY, NEW MEXICO SOUTH HUBBS ULL #213 LUCATION

UTIL PARE

10/30/85 SURVEY DATE:

G. MOUDE SURVE, CHASHEER,

THE RADIUS OF CURVATURE HETHER OF CARCULATION:

VERTICAL SECTION:

COMPETUS:

CALCULATED USING PROPOSAL OF N 25-27 W 3442'-4289' SURVEY BY DATADRILL BY SCIENTIFIC DETLING INT'L, 0'-3442'HAGNETIC MULTI SHOT ALL ANGLES IN MINUTES

KNOW! EDGE AND IS SUPPORTED BY ACTUAL FIELD DATA. THIS SURVEY IS CORRECT TO THE BEST OF MY COMPANY REPRESENTATIVE

SCIENTIFIC DRILLING LAT'L. MIDLAND, TEXAS

JUE TUMBER: 132M1186044

DATE: 10/30/85

INRUN SURVEY

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THE RADIUS OF CURVATURE	D-LEG PER 100	. 25	677	.36		er No	.0 .0 .0	. 27	2.15	04.	727	00'	60	. 22	
	NATES DEPARTURE	3 3 6 C C C C C C C C C C C C C C C C C	22	2.72 W	<u> </u>	3.0	23	6.44 W		6.42 W	88.	~		S.04 W	80.
	COORDINATES LATITUDE DEPAR	 		3 9	3 33.		S 25.			1,95 5		N	2.18 8	\ 	>0 70
	BEARING D M		0 99	.	S 55 - 0 U	71 - 0		86 0	3 0 -9Z S	710	٠.		35 - 0	(1)	センド
	INC D M	$0 - 15 \\ 0 - 30$		30	0-30	30	4 €		3.0			0 0	0-15		0 0
	COURSE DEV.	ଧ୍ୟ ଅଷ୍ଟ	66.	I O I	7,0	.80	66·	1.20	66'	09.	.00	00.	. 20	.40	.20
	VERT. SECT.	01	. 48	, 6 V	6	1.38	1.77	2.02	1.54	1,00	98,	98'	99'	\$ 00 ·	7.
	VERT. DEPTH	99,00	99.188 88.188	57.6.5	464,98	556.98	647.97	739.97	830.96	922,96	1013.96	1105.96	1196.95	1268.96	1379.96
	MEAS. DEPTH	92.00 121.00	202.00 	0.77.00	465.00	557.00	646.00	240.00	851.00	923.00	00'6101	106.00	192.00	1289.00	580.00

DEC 17 1990 DEC 17 1990 HOBBS OFFICE

SCIENTIFIC DRILLING INT'L. MIDLAND, TEXAS

300 NUMBER: 132M1186044

DATE: 10/30/86

INRUM SURVEY

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THE RADIUS OF CURVATURE

D-LEG PFR 100	N \$) () () ()	.37		 	N 10 .	75	45.1	1,41		<u>್ಷ</u>	.32	10	11. 22.
COOKAINATES LATITOBE DEPARTORE	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3 - -	9		6.34 W	ೆ 6	6.96 W	-	10	<u>د</u>	2	14.15 E	<u>19</u>	2
COOKAT	S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						4,24 8			\(\frac{\pi}{2}\)	7 7 7	7,62.1	10.69 N	12,83.11
Z Z	ш u			(A) (D)				⊒ 0	Ξ.			() E		
MEARING D M	80 53	- C	24	79	78-	∀ 9	10 10 1	<u>8</u> 9	16	-0 -1	£ 1	८	6.4	-/-/9
INC B K	0-30 0-30 8-30	0-15 6	3.0	0.0		N SI-0	0-30	1-45 Z	3- 0 K			4·· () N		
COURSE DEV.	,27	. 69	09'	64,	.80	60.	09.	1.79	3.81	0.00 0.00	6.62	6.55	6.02	5.16
VERT. SECT.	.03	-1.13	-1,64	1.81	-1.62	-1,30	84	70	. 43	<u>-</u>	. 46	86.	1.30	1.21
VERT, DEPTH	1440.95	1611,95	1703.95	1294.98	1886,94	1927,94	2069.94	2160.92	2252,84	23 (3) 62	2435,43	2526.19	2616.00	2708.85
MEAS. DEPTH	1441,00	1612,00	1704.00	1295.00	1682,00	1978.00	2020.00	2161.00	2253.00	2344,00	2436.00	2527.00	2619,00	2210.00

SCIENTIFIC PRITTING INTO...

JUK NURGER: 13201185044

027E: 10/30/88

THRUN SURVEY

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THE KADIUS OF CURVATURE

D-LEG PER 100	1,17		1 33 1 2 2 2 3 2 2 2 3 2 5 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
NATES DEFARTURE	28.19 E 33.37 E 55.03 E	21,11 12,68 3,23 8,10 8,10	2,27 w 31,351 w 31,358 w 42,866 w 55,13 u
COORDINATES LATITUDE DEFARTURE	13, 888 14, 108 17, 12 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	24,44 20,60 20,60 20,00	57.420 H 98.42 H 104.64 H 128.25 H
BEARING D M	884		
	2-15 N 8 1-30 N 8 1-15 N 9 5-15 N 4	2 ZZZ7.	10 0 N 44- 10-45 N 46- 12-45 N 52- 13-45 N 55- 13-30 N 36-
COURSE DEV.	4 4 21 21 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	11,88 13,20 14,04 1,63	15.75 1 16.75 1 18.34 1 19.93 1
UERT. SECT.	. 41 68 -1.59 1,07	22.07 34.85 48.30 49.85	79,33 95,12 112,90 132,63
VERT. DEPTH	2891,75 2891,70 2983,68 3074,51	5256,20 5247,25 5447,16 5447,03	3630,41 3721,89 3713,06 3903,90
HEDS. DEPTH	2802,00 2853,00 2955,00 3076,00	\$255.00 5351.00 5452.00 \$452.00	5538,00 3231,00 3324,00 3912,60 4016,00

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SCIENTILE PRILLER INTL. WINLAND, TEXAS

JULE PURPOPER: 132111186044

DATE: 10/30/86

LIRUN SURVEY

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THE RADIUS OF CURVATURE

D-LEG PER 100	7.7.0 7.9.0 9.00 0.00
COORDINATES LATTIUDE DEPARTURE	79,90 W 75,20 W 111,28 W
COORD. LATITUDE	156.73 H 176.31 H 196.52 N 205.22 N
BEARING D H	22,89 15- 0 N 38- 0 W 24,85 15- 0 N 38- 0 W 25,83 16-15 N 39- 0 W 11,19 16-15 N 39- 0 W
11.1C	15 0 15 0 1615 1615
COURSE DEU.	22.87 24.85 25.83 11.19
VERT, SECT,	175,86 200,12 225,28 236,16
VERT.	1484,60 1174,22 4263,56 1301,96
MTAS. DEPTH	4103,00 4196,00 4289,00 4322,00

THE MORIZONFAL DISPLACEMENT AT THE DEPTH OF 3329.00 FEET EQUALS 236.89 FEET AT N 29-58 U.

SCIENTIFIC DRILLING CONTROLS

SURVEY CERTIFICATION

Compani Amoco Production Co. WELL NAME & No. South Hobbs Unit #21
DATE of CERTIFICATION 11/21/86 LCCATION Lea County, N.M.
TYPE of SURVEY -Magnetic Multi Shot FROM 00.00' TO 3442'
JOB NUMEER 132M1186 TICKET NUMEER
THE ABOVE SURVEY WAS PERFORMED BY ME ON 10/30/86 & 11/03/86 19 THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE TRUE AND ACCURATE TO THE HEST OF MY KNOWLEDGE.
SURVEYOR DO RES
SURVEYOR
FILM TRANSFER RECEIPT
F HUREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE DURVEY.
19
DATE RECEIVED
COMPANY REPRESENTATIVE
SURVEY CONFIRMATION
1 HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING TO CURRENT SCIENTIFIC DRILLING CONTROLS STANDARDS.
S.D.C. REPRESENTATIVE

SMITH DRILLING SYSTEMS

SURVEY CERTIFICATION

COMPANY AMOCO PRODUCTION CO.	WELL NAME & NO. SOUTH HOBBS UNIT # 213
DATE of CERTIFICATION 11-08-86	LOCATION LEA COUNTY, NEW MEXICO
TYPE of SURVEY MAGNETIC MULTISHOT	FROM 3442 TO 4289
JOB NUMBER <u>08611024</u>	TICKET NUMBER5130
THE ABOVE SURVEY WAS PERFORMED BY ME ON THE RESULTS OBTAINED FROM ACTUAL FIELD ITRUE AND ACCURATE TO THE BEST OF MY KNOW	NOVEMBER 07 19 86 DATA CONFORM TO ESTABLISHED STANDARDS AND ARE WLEDGE.
	SURVEYOR SURVEYOR
I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL	ANSFER RECEIPT L FILM OBTAINED ON THE ABOVE SURVEY
	19
	DATE RECEIVED
	COMPANY REPRESENTATIVE
SURVEY	CONFIRMATION
I HAVE EXAMINED THE ABOVE SURVEY AND FOU TO CURRENT SMITH DRILLING SYSTEMS STANDA	ND THE DATA AND RESULTS ACCEPTABLE ACCORDING RDS.
s de la companya de l	
	S.D.S. REPRESENTATIVE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

RONALD J. EIDSON

3239

All distances must be from the outer boundaries of the Section Amoco Production Company Well No. South Hobbs (G-SA) Unit 213 Chit Letter Section Township Ronge 19 South 38 East Actual Footage Location of West: North feet from the 1275 line and teet from the East Ground Level Elev. Producing Formation Dedicated Acreage: 3622.9" Grayburg - San Andres Hobbs GSA 40 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 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? If answer is "yes," type of consolidation _ X Yes Unitization If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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 Commis-CERTIFICATION BHL @ 4301.96 TVD 205.22 NORTH 118.32 WEST I hereby certify that the information con-OF SURFACE LOCATIO tained herein is true and complete to the best of my knowledge and belief. 106 Note: There was a 100' \times 100' Administrative Analyst area M-scoped around this location and $t_{i}^{h}e$ pipelines Àmoco Production Company shown in the inset were found. September 5, 1986 NOTE: This well to be directionally drilled. Bottom hole location I hernby certify that the well location will be 680' F.N.L. and 1375' shown on this plat was platted from field F.E.L. notes of actual surveys made by me or is true and correct to the best of my knowledge and belief. Date Surveyed July 10, 1986 Flegistured Frotessional Engineer 1320 1680 1080 2310 2000 1000

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