

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐		7. UNIT AGREEMENT NAME ROSA UNIT Cont 17212	
2. NAME OF OPERATOR Hans Prod Co NORTHWEST PIPELINE CORPORATION		8. FARM OR LEASE NAME, WELL NO. #90A	
3. ADDRESS AND TELEPHONE NO. c/o Walsh Engr. & Prod. Corp. 7415 E. Main Farmington, New Mexico 87402 505 327-4892		9. AP WELL NO. 30-045-2259	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2025'FNL & 1875'FEL At proposed prod. zone 1862'FSL & 1875'FEL		10. FIELD AND POOL, OR WILDCAT BLANCO MESA VERDE 72319	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 25 miles Northeast of Blanco, New Mexico		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA G Sec. 33, T32N, R6W	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 790'		12. COUNTY OR PARISH San Juan	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1400'		13. STATE N.M.	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6377'GR		16. NO. OF ACRES IN LEASE 2561.86	
17. NO. OF ACRES ASSIGNED TO THIS WELL W/320 E/320		19. PROPOSED DEPTH 6030'	
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START* July 15, 1995	
23. PROPOSED CASING AND CEMENTING PROGRAM			

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" K-55	36.0	500'	315 cuft C1 "B" w/3% CaCl2
8-3/4"	7" K-55	20.0	3610'	861 cuft 65/35 poz, 187 cuft C1 "B"
6-1/4"	4-1/2" K-55	10.5	3510-6030'	415 cuft C1 "B" w/4% gel and additives

NORTHWEST PIPELINE proposes to drill a deviated well to develop the Mesa Verde formation at the above described site in accordance with the attached drilling and surface use programs.

This location has been archaeologically surveyed by CRMC. Copies of the report will be submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-way. The right-of-way will be an existing road that crosses the NW/SE of Section 33 where it joins an existing road that crosses the SE/NE, SE/NW N2/NW of Section 33; S2/NE, SE/NW and N2/NW of Section 32; SW/SW of Section 29; SE/4 and NW/4 of Section 30 all of T32N, R6W; NE/NE of Section 25, T32N, R7W where it joins the Pine River Road (SJ CR #4020)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Paul C. Thompson TITLE Paul C. Thompson, Agent DATE 5/3/95

(This space for Federal or State office use)

PERMIT NO. RECEIVED APPROVAL DATE JUN 13 1995

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL IF ANY

APPROVED BY OIL CON. DIV. NMOC DIST. 3 TITLE DISTRICT MANAGER DATE JUN 09 1995

Hold C-104 For District 3 *See Instructions On Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-29259		Pool Code 72319	Pool Name BLANCO MESA VERDE
Property Code 008480-17212	Property Name ROSA UNIT COM		Well Number #090A
OGRID No. 16189	Operator Name NORTHWEST PIPELINE CORPORATION		Elevation 6377'

10 Surface Location

UL or lot no. G	Section 33	Township 32N	Range 6W	Lot Ida	Feet from the 2025	North/South line North	Feet from the 1875	East/West line East	County SJ
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11 Bottom Hole Location If Different From Surface

UL or lot no. J	Section 33	Township 32N	Range 6W	Lot Ida	Feet from the 1862'	North/South line South	Feet from the 1875	East/West line East	County SJ
Dedicated Acres 320		Joint or Infill	Consolidation Code U		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

2620.20 2652.54	16	17 OPERATOR CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Paul C. Thompson Signature Paul C. Thompson, Agent Printed Name President Walsh Engr. & Prod. Corp. Title 5/3/95 Date		
18 SURVEYOR CERTIFICATION		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 belief. Date of Survey Signature and Seal of Professional Surveyor: See ORIGINAL ON FILE Plot attached Certificate Number	
2628.78		2763.42	

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

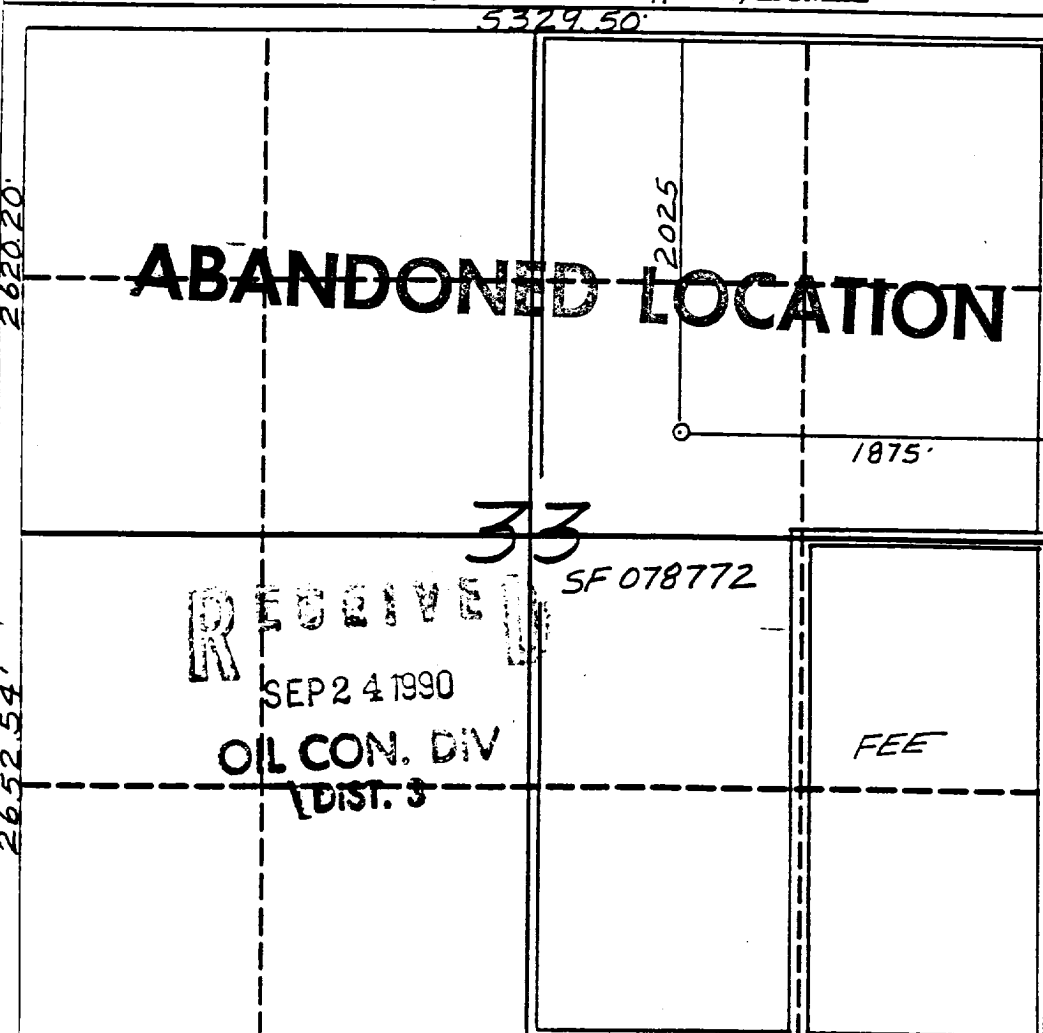
All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc			Lease Rosa Unit Com (SF-078772)		Well No. 278
Unit Letter G	Section 33	Township 32 North	Range 6 West	County San Juan	
Actual Footage Location of Well: 2025 feet from the North line and 1875 feet from the East line					
Ground level Elev. 6377'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or ink 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 interest 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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Peggy Bradfield

Printed Name
Regulatory Affairs

Position
Meridian Oil Inc.

Company
9-7-90

Date

SURVEYOR CERTIFICATION

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
6-8-90

Signature
Professional Surveyor

NEW MEXICO
6857
REGISTERED LAND SURVEYOR

Certificate No.
Neale Edwards

5730'

4092'

4091'

4090'

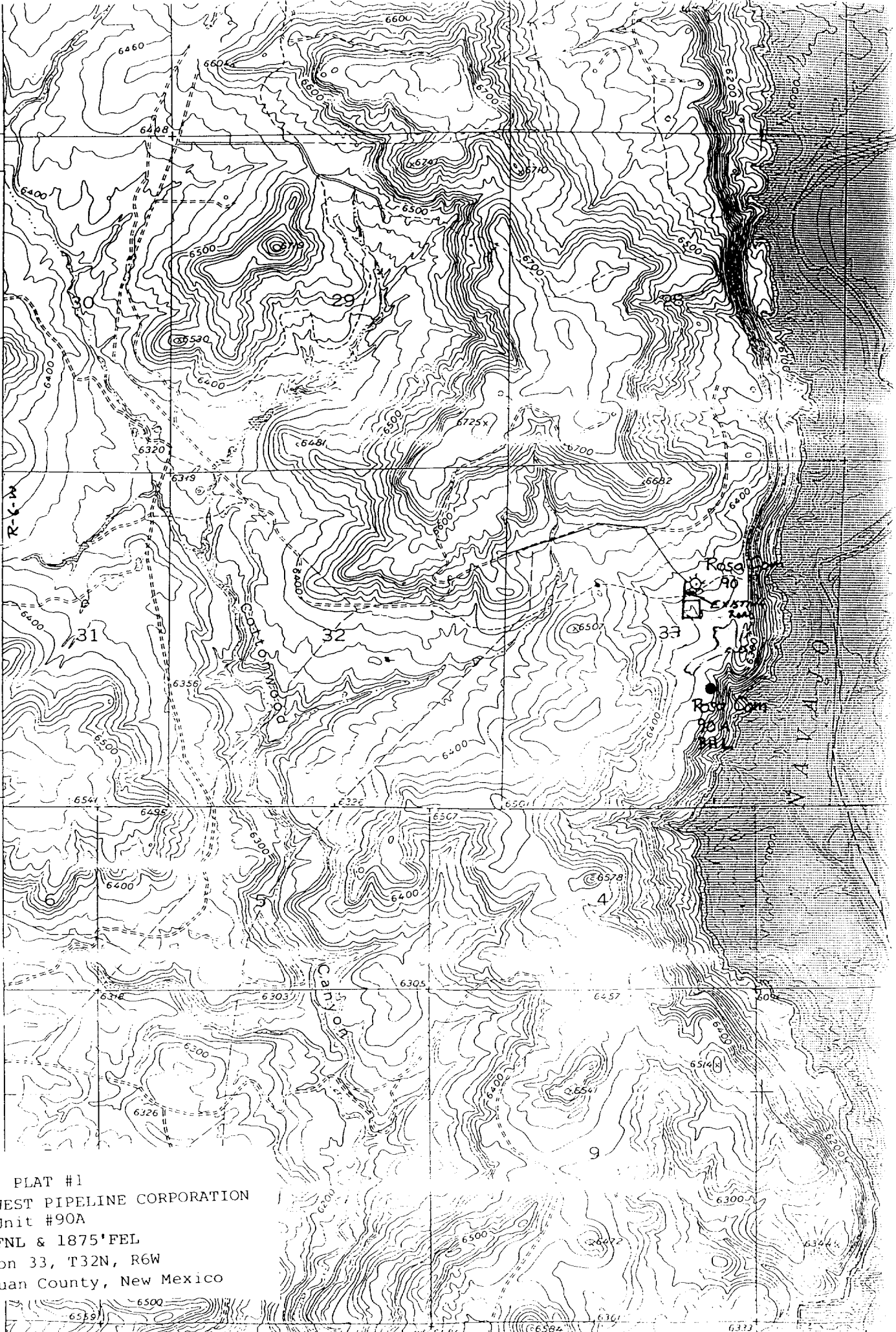
T 32 N

T 31 N

4089'

55'

4457' E
(BURNT MESA)



PLAT #1
NORTHWEST PIPELINE CORPORATION
Rosa Unit #90A
2025'FNL & 1875'FEL
Section 33, T32N, R6W
San Juan County, New Mexico

WILLIAMS PRODUCTION COMPANY
SEC.33-T32N-R6W

ROSA UNIT COM #90A
SLOT #1
SAN JUAN COUNTY
NEW MEXICO.

PROPOSAL LISTING

by
Baker Hughes Inteq

Your ref : INITIAL PLAN
Our ref : prop1965
License :

Date printed : 28-Apr-95
Date created : 28-Apr-95
Last revised : 28-Apr-95

Field is centred on n36 30 0.000,w107 40 0
Structure is centred on n36 55 40.000,w107 28 42.32

Slot location is n36 55 19.582,w107 28 53.095
Slot Grid coordinates are N 2155101.534, E 602870.327
Slot local coordinates are 2065.00 S 875.00 W
Reference North is True North

WILLIAMS PRODUCTION COMPANY
SEC.33-T32N-R6W, ROSA UNIT COM #90A
SAN JUAN COUNTY, NEW MEXICO.

PROPOSAL LISTING Page 1
Your ref : INITIAL PLAN
Last revised : 28-Apr-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES			Dogleg Deg/100Ft	Vert Sect
0.00	0.00	180.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00
500.00	0.00	180.00	500.00	0.00 N	0.00 E	0.00	0.00	0.00
585.00	0.00	180.00	585.00	0.00 N	0.00 E	0.00	0.00	0.00
685.00	3.00	180.00	684.95	2.62 S	0.00 E	3.00	2.62	0.00
785.00	6.00	180.00	784.63	10.46 S	0.00 E	3.00	10.46	0.00
885.00	9.00	180.00	883.77	23.51 S	0.00 E	3.00	23.51	0.00
985.00	12.00	180.00	982.08	41.74 S	0.00 E	3.00	41.74	0.00
1085.00	15.00	180.00	1079.31	65.08 S	0.00 E	3.00	65.08	0.00
1185.00	18.00	180.00	1175.18	93.48 S	0.00 E	3.00	93.48	0.00
1285.00	21.00	180.00	1269.43	126.85 S	0.00 E	3.00	126.85	0.00
1385.00	24.00	180.00	1361.81	165.12 S	0.00 E	3.00	165.12	0.00
1485.00	27.00	180.00	1452.06	208.16 S	0.00 E	3.00	208.16	0.00
1585.00	30.00	180.00	1539.93	255.87 S	0.00 E	3.00	255.87	0.00
1685.00	33.00	180.00	1625.18	308.12 S	0.00 E	3.00	308.12	0.00
1785.00	36.00	180.00	1707.59	364.75 S	0.00 E	3.00	364.75	0.00
1862.84	38.34	180.00	1769.61	411.78 S	0.00 E	3.00	411.78	0.00
1965.88	38.34	180.00	1850.44	475.69 S	0.00 E	0.00	475.69	0.00
1999.29	37.50	180.00	1876.79	496.22 S	0.00 E	2.50	496.22	0.00
2099.29	35.00	180.00	1957.43	555.34 S	0.00 E	2.50	555.34	0.00
2199.29	32.50	180.00	2040.57	610.90 S	0.00 E	2.50	610.90	0.00
2299.29	30.00	180.00	2126.06	662.77 S	0.00 E	2.50	662.77	0.00
2399.29	27.50	180.00	2213.72	710.86 S	0.00 E	2.50	710.86	0.00
2499.29	25.00	180.00	2303.40	755.09 S	0.00 E	2.50	755.09	0.00
2532.94	24.16	180.00	2334.00	769.09 S	0.00 E	2.50	769.09	0.00
2599.29	22.50	180.00	2394.93	795.36 S	0.00 E	2.50	795.36	0.00
2668.22	20.78	180.00	2459.00	820.78 S	0.00 E	2.50	820.78	0.00
2699.29	20.00	180.00	2488.12	831.60 S	0.00 E	2.50	831.60	0.00
2799.29	17.50	180.00	2582.80	863.74 S	0.00 E	2.50	863.74	0.00
2899.29	15.00	180.00	2678.80	891.72 S	0.00 E	2.50	891.72	0.00
2999.29	12.50	180.00	2775.93	915.49 S	0.00 E	2.50	915.49	0.00
3099.29	10.00	180.00	2874.00	935.00 S	0.00 E	2.50	935.00	0.00
3388.69	10.00	180.00	3159.00	985.25 S	0.00 E	0.00	985.25	0.00
3500.00	10.00	180.00	3268.62	1004.58 S	0.00 E	0.00	1004.58	0.00
3714.64	10.00	180.00	3480.00	1041.85 S	0.00 E	0.00	1041.85	0.00
4000.00	10.00	180.00	3761.02	1091.41 S	0.00 E	0.00	1091.41	0.00
4500.00	10.00	180.00	4253.43	1178.23 S	0.00 E	0.00	1178.23	0.00
5000.00	10.00	180.00	4745.83	1265.05 S	0.00 E	0.00	1265.05	0.00
5500.00	10.00	180.00	5238.24	1351.88 S	0.00 E	0.00	1351.88	0.00
5653.09	10.00	180.00	5389.00	1378.46 S	0.00 E	0.00	1378.46	0.00
5698.78	10.00	180.00	5434.00	1386.40 S	0.00 E	0.00	1386.40	0.00
5918.12	10.00	180.00	5650.00	1424.48 S	0.00 E	0.00	1424.48	0.00
6000.00	10.00	180.00	5730.64	1438.70 S	0.00 E	0.00	1438.70	0.00
6120.19	10.00	180.00	5849.00	1459.57 S	0.00 E	0.00	1459.57	0.00
6324.29	10.00	180.00	6050.00	1495.01 S	0.00 E	0.00	1495.01	0.00

OJO ALAMO

KIRTLAND

FRUITLAND

PICTURED CLIFFS

LEWIS

CLIFF HOUSE

MENEFFEE

POINT LOOKOUT

MANCOS

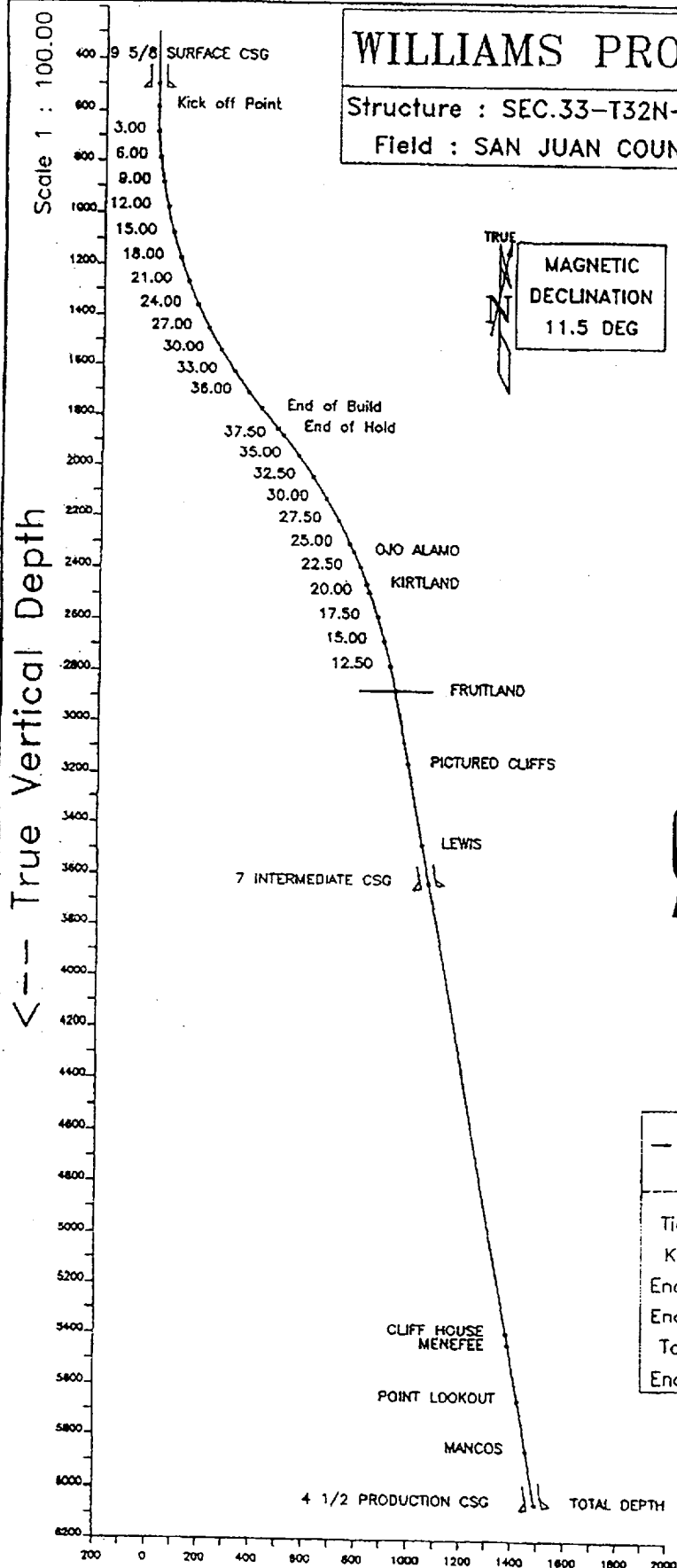
TOTAL DEPTH

All data is in feet unless otherwise stated
Coordinates from SLOT #1 and TVD from wellhead.
Vertical section is from wellhead on azimuth 180.00 degrees.
Declination is 11.57 degrees, Convergence is 0.21 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

WILLIAMS PRODUCTION COMPANY

Structure : SEC.33-T32N-R6W Well : ROSA UNIT COM #90A

Field : SAN JUAN COUNTY Location : NEW MEXICO.



TRUE
MAGNETIC
DECLINATION
11.5 DEG

Scale 1 : 50.00
West : East

South -->

Scale 1 : 50.00

MINIMUM DISPLACEMENT
795' DUE SOUTH

FRUITLAND COM 90A



WELL PROFILE DATA							
Point	MD	Inc	Dir	TVD	North	East	Deg/100
Tie on	0	0.00	180.00	0	0	0	0.00
KOP	585	0.00	180.00	585	0	0	0.00
End of Build	1863	38.34	180.00	1770	-412	0	3.00
End of Hold	1966	38.34	180.00	1850	-476	0	0.00
Target	3099	10.00	180.00	2874	-935	0	2.50
End of Hold	6324	10.00	180.00	6050	-1495	0	0.00

APPROVAL
CUSTOMER _____
ENGINEER _____
COORD. _____

-- Baker Hughes INTEQ --
DRAWN BY: WALLY HOLBROOK
DATE: April 28, 1995
TVD REFERENCED WELLHEAD.
DENVER, COLORADO
PHONE: (303) 860-0509