

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 14, 1997

Phillips Petroleum Company 5525 Highway 64 - NBU 3004 Farmington, New Mexico 87401 Attention: Patrick H. Noah

Administrative Order DD-184

Dear Mr. Noah:

Reference is made to your application dated November 6, 1996 authorizing Phillips Petroleum Company's ("Phillips") recent recompletion of its San Juan "32-8" Unit Well No. 10 (API No. 30-045-10562) by side tracking off of the existing vertical wellbore and directionally drilling to a pre-determined bottomhole location in order to further develop the Blanco-Mesaverde Pool underlying the existing standard 320-acre, more or less, gas spacing and proration unit ("GPU") comprising the E/2 equivalent of Section 24, Township 31 North, Range 8 West, NMPM, San Juan County, New Mexico.

The Division Director Finds That:

- (1) 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 ("GPU") 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;
- (2) The San Juan "32-8" Unit Well No. 10, located at a standard surface gas well location 1800 feet from the North line and 952 feet from the East line (Unit H) of said Section 24, was originally drilled to and completed in the Blanco-Mesaverde Pool in 1955;
- (3) This application has been duly filed by Phillips under the provisions Rules 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 New Mexico Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (4) As indicated by the directional survey, dated October 21, 1996, on file with the Division, the actual bottomhole location for this well within the Blanco-Mesaverde is now 1587 feet from the North line and 1172 feet from the East line (Unit H) of said Section 24; and,

(5) 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.

IT IS THEREFORE ORDERED THAT:

- (1) The recompletion by Phillips Petroleum Company of its San Juan "32-8" Unit Well No. 10 (API No. 30-045-10562), located at a standard surface gas well location 1800 feet from the North line and 952 feet from the East line (Unit H) of Section 24, Township 31 North, Range 8 West, NMPM, San Juan County, New Mexico, by side tracking off of the existing vertical wellbore and directionally drilling to its present standard bottomhole gas well location within the Blanco-Mesaverde Pool 1587 feet from the North line and 1172 feet from the East line (Unit H) of said Section 24, is hereby approved.
- (2) The existing 320-acre, more or less, standard gas spacing and proration unit ("GPU") comprising the E/2 equivalent of said Section 24 shall be dedicated to said well.
- (3) 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. KEMAY

Director

SEAL

cc:

WJL/MES/kv

Oil Conservation Division - Aztec

U. S. Bureau of Land Management - Farmington

Phillips 4

Rue: 11-12-96 Soso: 12-2-96 Achosed: 7-14-97

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July 14, 1997

Phillips Petroleum Company 5525 Highway 64 - NBU 3004 Farmington, New Mexico 87401

Attention: Patrick H. Noah

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- Jurisdiction of this cause is retained for the entry of such further orders as the (3) 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

SEAL

WJL/MES/kv

Oil Conservation Division - Aztec cc:

U. S. Bureau of Land Management - Farmington



PHILLIPS PETROLEUM COMPANY 3 140 x

FARMINGTON, NEW MEXICO 87401 5525 HWY. 64 NBU 3004

November 6, 1996

State of New Mexico
Oil Conservation Division
204 South Pacheco
Santa Fe, New Mexico 87505

ATTN: MR. WILLIAM J. LEMAY

RE:

ADMINISTRATIVE APPROVAL OF INTENTIONAL WELL DEVIATION

SAN JUAN 32-8 UNIT #10 WELL, NE/4 SECTION 24-T31N-R8W, SAN JUAN COUNTY, NEW MEXICO PHILLIPS' G.F.-5465, LCN 650117

Gentlemen:

Phillips Petroleum Company ("Phillips"), as Operator of the San Juan 32-8 Unit, requests administrative approval of the intentional deviation of the above-described well.

The San Juan 32-8 Unit #10 Well was originally drilled in 1955-and completed as a Blanco Mesaverde Pool well. Enclosed is a copy of the original plat for this well which indicates the original location of 1800' FNL and 952' FEL.

Phillips has abandoned the existing Blanco Mesaverde interval in this well, sidetracked and completed in the Blanco Mesaverde at a bottom-hole location of 1587' FNL and 1172' EL Section 24-T31N-R8W. Enclosed are three copies of a new well location and acreage dedication plat and sub-surface directional survey confirming the well's bottom-hole location.

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A copy of this notice has been furnished to Devon Energy Corp, the offsetting Blanco Mesaverde Pool operator.

Please advise if additional information is required.

Very truly yours,

Patrick H. Noah Senior Land Specialist San Juan Basin (505) 599-3410

cc: J.L. Mathis (r) G.F. 5465 Ernie Busch-OCD, Aztec SANTA FE, NEW MEXICO

SANTA FE, NEW MEXICO

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PATIFIC MARKET FIFE	Line Cor. Lease San Juan 19-6
	A SECTION OF THE PROPERTY OF T
Well No Unit Letter S S	T TR Ray Pool Sance
County Kind of Leas	e (State, Fed. or Patented)
If well produces oil or condensate, give location	ation of tanks: Unit S T R
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If Gas is not being sold, give reasons and al	lso explain its present disposition:
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Change in Transporter of (Gheck One): Oil (
Change in Ownership(
Remarks:	(Give explanation below)
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	JAN 6 1956
The undersigned certifies that the Rules and	Regulations of the Oil Conservation Com-
mission have been complied with.	DIST. 3
Executed this the 20th day of because	19.55
Executed this the 20th day of because	19 55 Original signed by T. A. Dugan
Executed this the 20th day of 100000000000000000000000000000000000	19 55 Original signed by T. A. Dugan
	By Original signed by T. A. Dugan
Executed this the 20th day of December Approved 1-6 19 5	By Original signed by T. A. Dugan Title State of England
	By Original signed by T. A. Dugan
Approved /- 6 19 5	By Original signed by T. A. Dugan Title District Inglant

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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pach	eco, Santa I	e, NM 87505	:					•		MA [ENDED REPORT
	•	W	ELL LO	CATIC	N AND	ACI	REAGE DEDI	CATION P	LAT		
	API Numb	er		² Pool Co	ode			³ Pool N	аше		
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'OGRID							Name				' Elevation
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					10 Suri	ace	Location				
UL or lot no.	Section	Township		Lot Idn	Feet from		North/South line	Feet from the	East/Wes	4 line	County
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	<u> </u>		11 Bo	ttom Ho	le Locati	on I	f Different Fro	om Surface			·
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/Wes	t line	County
H	24	31N	8W	1	1587	,	North	1172	East	t	San Juan
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320 ac	:	1	U								
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Certificate Number

New Mexico Oil Conservation Division C-102 Instructions

IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABLED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the appropriate OCD district office. Independent subdivision surveys will not be acceptable.

- 1. The OCD assigned API number for this well
- 2. The pool code for this (proposed) completion
- 3. The pool name for this (proposed) completion
- 4. The property code for this (proposed) completion
- The property name (well name) for this (proposed) completion
- 6. The well number for this (proposed) completion
- 7. Operator's OGRID number
- 8. The operator's name
- 9. The ground level elevation of this well
- 10. The surveyed surface location of this well measured from the section lines NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD unit letter.
- 11. Proposed bottom hole location. If this is a horizontal hole indicate the location of the end of the hole.
- 12. The calculated acreage dedicated to this completion to the nearest hundredth of an acre
- 13. Put a Y if more than one completion will be sharing this same acreage or N if this is the only completion on this acreage
- 14. If more than one lease of different ownership has been dedicated to the well show the consolidation code from the following table:
 - C Communitization
 - U Unitization
 - F Forced pooling
 - O Other
 - P Consolidation pending

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!

- Write in the OCD order(s) approving a non-standard location, non-standard spacing, or directional or horizontal drilling
- 16. This grid represents a standard section. You may superimpose a non-standard section over this grid. Outline the dedicated acreage and the separate leases within that dedicated acreage. Show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions.

(Note: A legal location is determined from the perpendicular distance to the edge of the tract.) If this is a high angle or horizontal hole show that portion of the well bore that is open within this pool.

Show all lots, lot numbers, and their respective acreage.

If more than one lease has been dedicated to this completion, outline each one and identify the ownership as to both working interest and royalty.

- The signature, printed name, and title of the person authorized to make this report, and the date this document was signed.
- 18. The registered surveyors certification. This section does not have to be completed if this form has been previously accepted by the OCD and is being filed for a change of pool or dedicated acreage.



REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

Phillips Petroleum
COMPANY

San Juan Unit 32-8 #10
WELL NAME

San Juan County, New Mexico LOCATION

JOB NUMBER 410-80536

TYPE OF SURVEY
MSS

DATE
October 21, 1996

SURVEYED BY
Max Lund

OFFICE DENVER



SURVEY CERTIFICATION SHEET

Phillips Petroleum

410-80536

October 21, 1996

Company

Job#

Date

Sec-24-T31N-R8W

San Juan Unit 32-8 #10

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,900 feet to 4,358 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Max Lund

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Walter D. Lowry
Sr. Drilling Enginee

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 24th day of Colorado, 1996.

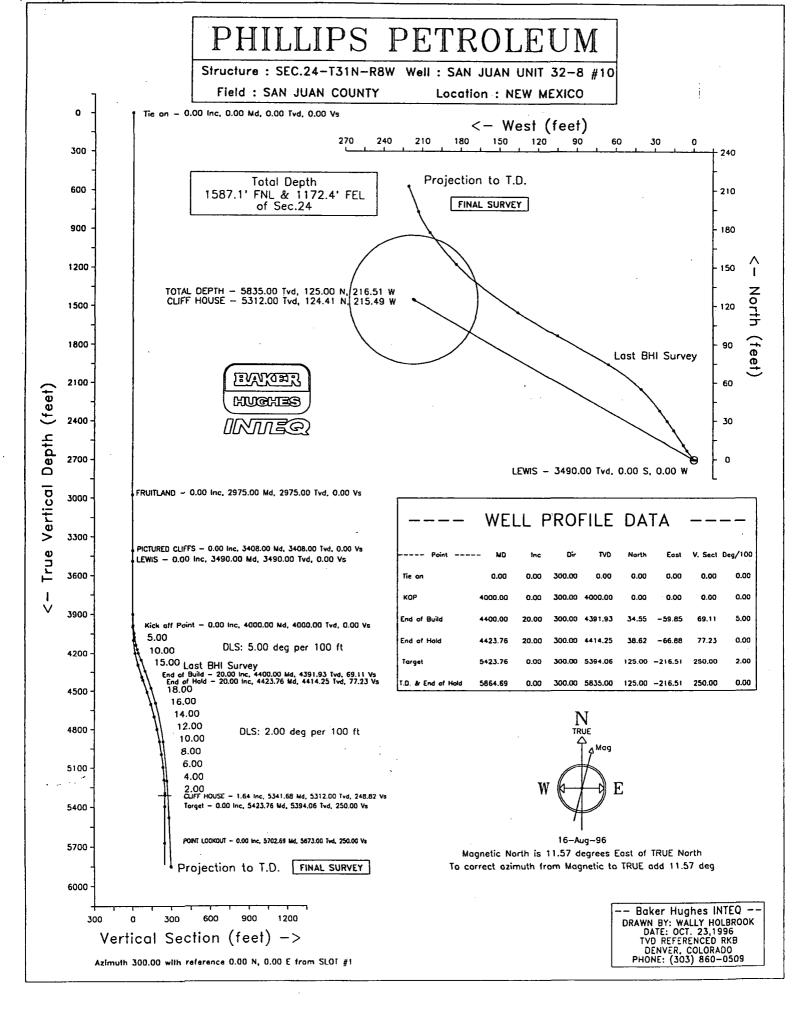
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Certification Number:

432

Certification Date:

October 23, 1996



PHILLIPS PETROLEUM SEC.24-T31N-R8W

SAN JUAN UNIT 32-8 #10 SLOT #1 SAN JUAN COUNTY NEW MEXICO

SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3760

License:

Date printed: 23-Oct-96 Date created: 21-Oct-96 Last revised: 23-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 53 13.005,w107 36 45.004

Slot location is n36 52 55.207,w107 36 56.721 Slot Grid coordinates are N 2140384.186, E 563634.003 Slot local coordinates are 1800.00 S 952.00 W

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM
SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10
SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref: Single Shot Survey

Last revised: 23-Oct-96

Measured Depth		Azimuth Degrees	True Vert Depth	R E C C O O						Dogleg Deg/100ft	Vert Sect	
0.00	0.00	0.00	0.00	0	.00 N		0.	00	E	0.00	0.00	
3900.00	0.00	0.00	3900.00	0	.00 N		0.	00	E	0.00	0.00	
3987.00	3.13	321.40	3986.96	1	.86 N		1.	48	W	3.60	2.21	
4049.00	8.78	323.70	4048.60	7	.00 N		5.	34	W	9.12	8.13	
4079.00	10.75	326.60	4078.16	11	.18 N		8.	24	W	6.77	12.72	
4141.00	14.75	326.50	4138.62	22	.59 N		15.	78	W	6.45	24.96	
4173.00	17.50	325.50	4169.36	29	.96 N		20.	76	W	8.64	32.95	·
4204.00	20.00	325.50	4198.71	38	.17 N		26.	40	W	8.06	41.95	
4267.00	21.50	314.50	4257.65	55	.15 N		40.	74	W	6.62	62.86	•
4358.00	20.00	300.50	4342.79	74	.75 N		66.	06	W	5.68	94.58	Last BHI Survey
4498.00	17.50	298.50	4475.35	96	.94 N		105.	20	W	1.84	139.57	
4623.00	15.50	303.50	4595.21	115	.13 N		135.	64	W	1.96	175.04	
4931.00	7.25	317.50	4896.95	152	.25 N		183.	18	W.	2.81	234.76	•
5238.00	4.75	324.60	5202.24	176	.89 N		203.	64	W	0.85	264.80	
5517.00	3.00	340.00	5480.60	193	.17 N		212.	83	W	0.72	280.90	
5885.00	3.50	338.40	5848.01	212	.67 N		220.	26	W	0.14	297.08	Projection to T.D. is
5890.00	3.50	338.40	5853.00	212	.95 N		220.	37	W	0.00		1587.1' FNL & 1172.4' FEL

All data is in feet unless otherwise stated.

Coordinates from SLOT #1 and TVD from RKB (6501.00 Ft above mean sea level).

Bottom hole distance is 306.45 on azimuth 314.02 degrees from wellhead.

Vertical section is from wellhead on azimuth 300.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Single Shot Survey
Last revised : 23-Oct-96

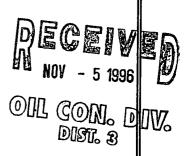
Comments in wellpath

MD	TVD	Rectangular	Coords.	Comment	· · · · · · · · · · · · · · · · · · ·
4358.00 5885.00 5890.00	4342.79 5848.01 5853.00	74.75 N 212.67 N 212.95 N	220.26 W	Last BHI Survey Projection to T.D. is 1587.1' FNL & 1172.4' FEL	
			Targets a	ssociated with this wellpath	

Target name	Geographic Location	T.V.D.	Rectangular		Revised
TGT 32-8 #10		5312.00	125.00N	216.51W	16-Aug-96



REPORT OF SUB-SURFACE DIRECTIONAL SURVEY



Phillips Petroleum
COMPANY

San Juan Unit 32-8 #10
WELL NAME

San Juan County, New Mexico
LOCATION

JOB NUMBER 410-80536 TYPE OF SURVEY MSS

<u>DATE</u> October 21, 1996

SURVEYED BY
Max Lund

OFFICE DENVER



SURVEY CERTIFICATION SHEET

Phillips Petroleum

410-80536

October 21, 1996

Company

Job#

Date

Sec-24-T31N-R8W

San Juan Unit 32-8 #10

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,900 feet to 4,358 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Max Lund

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Walter D. Lowry Sr. Drilling Enginee

My commission expires duquet 4, 2000

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this <u>24th</u> day of <u>Loter</u>, 19<u>96</u>.

Certification Number:

432

Certification Date:

October 23, 1996

PHILLIPS PETROLEUM Structure: SEC.24-T31N-R8W Well: SAN JUAN UNIT 32-8 #10 Field: SAN JUAN COUNTY **Location: NEW MEXICO** 0 Tie on - 0.00 Inc, 0.00 Md, 0.00 Tvd, 0.00 Vs <- West (feet) 150 120 240 210 60 30 300 240 Total Depth Projection to T.D. 600 210 1587.1' FNL & 1172.4' FEL FINAL SURVEY of Sec.24 900 180 1200 TOTAL DEPTH - 5835.00 Tvd, 125.00 N, 216.51 W CLIFF HOUSE - 5312.00 Tvd, 124.41 N, 215.49 W North 1500 1800 Last BHI Survey LEAVIZABLES 2100 60 True Vertical Depth (feet) HUGHES 2400 30 2700 LEWIS - 3490.00 Tvd, 0.00 S, 0.00 W FRUITLAND - 0.00 Inc, 2975.00 Md, 2975.00 Tvd, 0.00 Vs 3000 WELL PROFILE DATA 3300 PICTURED CLIFFS - 0.00 Inc. 3408.00 Nd. 3408.00 Tvd. 0.00 Vs MO Die TVD North East V. Sect Deg/100 LEWIS - 0.00 Inc, 3490.00 Md, 3490.00 Tvd, 0.00 Vs 3600 Tie on 0.00 0.00 300.00 0.00 0.00 0.00 0.00 0.00 KOP 4000.00 0.00 300.00 4000.00 0.00 0.00 0.00 0.00 3900 Fod of Build 4400 00 20.00 300 00 4391 93 34.55 -59 85 69 11 5.00 Kick off Point - 0.00 Inc. 4000.00 Nd. 4000.00 Tvd. 0.00 Vs 5.00 End of Hold 4423.76 20.00 300.00 4414.25 38.62 -66.88 77.23 0.00 DLS: 5.00 deg per 100 ft 10.00 4200 15.00 Last BHI Survey End of Build - 20.00 Inc, 4400.00 Md, 4391.93 Tvd, 69.11 Vs End of Hold - 20.00 Inc, 4423.76 Md, 4414.25 Tvd, 77.23 Vs 18.00 Target 5423.76 0.00 300.00 5394.06 125.00 -216.51 250.00 2.00 T.D. &r End of Hold 5864.69 0.00 300.00 5835.00 125.00 -216.51 250 00 0.00 4500 16.00 14.00 12.00 4800 DLS: 2.00 deg per 100 ft 10.00 8.00 6.00 5100 4.00 2.00 CUFF HOUSE - 1.64 Inc. 5341.68 Md. 5312.00 Tvd. 248.82 Vs Target - 0.00 Inc, 5423.76 Md, 5394.06 Tvd, 250.00 Vs 5400 POINT LOOKOUT - 0.00 Inc. 5702.69 Md, 5673.00 Tvd, 250.00 Vs 16-Aug-96 5700 Magnetic North is 11.57 degrees East of TRUE North Projection to T.D. FINAL SURVEY To correct azimuth from Magnetic to TRUE add 11.57 deg 6000 Baker Hughes INTEQ --300 600 900 1200 DRAWN BY: WALLY HOLBROOK DATE: OCT. 23,1996 TVD REFERENCED RKB DENVER, COLORADO PHONE: (303) 860-0509 Vertical Section (feet) -> Azimuth 300.00 with reference 0.00 N, 0.00 E from SLOT #1

PHILLIPS PETROLEUM SEC.24-T31N-R8W

SAN JUAN UNIT 32-8 #10 SLOT #1 SAN JUAN COUNTY NEW MEXICO

SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3760

License:

Date printed: 23-Oct-96 Date created: 21-Oct-96 Last revised: 23-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 53 13.005,w107 36 45.004

Slot location is n36 52 55.207,w107 36 56.721 Slot Grid coordinates are N 2140384.186, E 563634.003 Slot local coordinates are 1800.00 S 952.00 W

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM
SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10
SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1

Your ref : Single Shot Survey

Last revised: 23-Oct-96

Measured			True Vert	RECT				Dogleg	Vert		,
Depth	Degrees	Degrees	Depth	COOR	DIN	AT	E 3	Deg/100ft	Sect	·	
0.00	0.00	0.00	0.00	0.00	N		0.00 H	0.00	0.00		,
3900.00	0.00	0.00	3900.00	0.00	N		0.00 I	0.00	0.00		
3987.00	3.13	321.40	3986.96	1.86	N		1.48 V	7 3.60	2.21		
4049.00	8.78	323.70	4048.60	7.00	N		5.34 V	7 9.12	8.13		
4079.00	10.75	326.60	4078.16	11.18	N		8.24 V	i 6.77	12.72		
4141.00	14.75	326.50	4138.62	22.59	N	1	5.78 V	7 6.45	24.96		
4173.00	17.50	325.50	4169.36	29.96			0.76 V		32.95		
4204.00	20.00	325.50	4198.71	38.17			6.40 V		41.95		
4267.00	21.50	314.50	4257.65	55.15	N		0.74 V		62.86		
4358.00	20.00	300.50	4342.79	74.75			6.06 V			Last BHI Survey	
4498.00	17.50	298.50	4475.35	96.94	N	10	5.20 V	1.84	139.57		
4623.00	15.50	303.50	4595.21	115.13	N	13	5.64 V		175.04		
4931.00	7.25	317.50	4896.95	152.25	N	18	3.18 V	7. 2.81	234.76	·	
5238.00	4.75	324.60	5202.24	176.89	N	20	3.64 V	0.85	264.80		
5517.00	3.00	340.00	5480.60	193.17	N	21	2.83 V	0.72	280.90		
5885.00	3.50	338.40	5848.01	212.67	N	22	0.26 V	0.14	297.08	Projection to T.D. is	
5890.00	3.50	338.40	5853.00	212.95			0.37 V			1587.1' FNL & 1172.4' FI	EL

All data is in feet unless otherwise stated.

Coordinates from SLOT #1 and TVD from RKB (6501.00 Ft above mean sea level).

Bottom hole distance is 306.45 on azimuth 314.02 degrees from wellhead.

Vertical section is from wellhead on azimuth 300.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

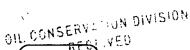
SURVEY LISTING Page 2
Your ref: Single Shot Survey
Last revised: 23-Oct-96

Comments in wellpath

MD	TVD	Rectangular	Coords.	Comment
4358.00 5885.00	4342.79 5848.01	74.75 N 212.67 N		Last BHI Survey Projection to T.D. is
5890.00	5853.00	212.07 N 212.95 N		1587.1' FNL & 1172.4' FEL

Targets associated with this wellpath

J · · ·	Geographic Location	T.V.D.	Rectangular		Revised
TGT 32-8 #10	,	5312.00	125.00N	216.51W	16-Aug-96





REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

OIL COM. DIV.

Phillips Petroleum
COMPANY

San Juan Unit 32-8 #5
WELL NAME

San Juan County, New Mexico LOCATION

JOB NUMBER 410-80548 TYPE OF SURVEY
MSS

DATE
October 13, 1996

SURVEYED BY
Max Lund

<u>OFFICE</u> DENVER



SURVEY CERTIFICATION SHEET

Phillips Petroleum

410-80548

October 13, 1996

Company

Job#

Date

Sec-10-T32N-R8W

San Juan Unit 32-8 #5

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

4,003 feet to 4,359 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Max Lund

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Walter D. Lowry
Sr. Drilling Engineer

My commission expires <u>lugrest 4,2000</u>

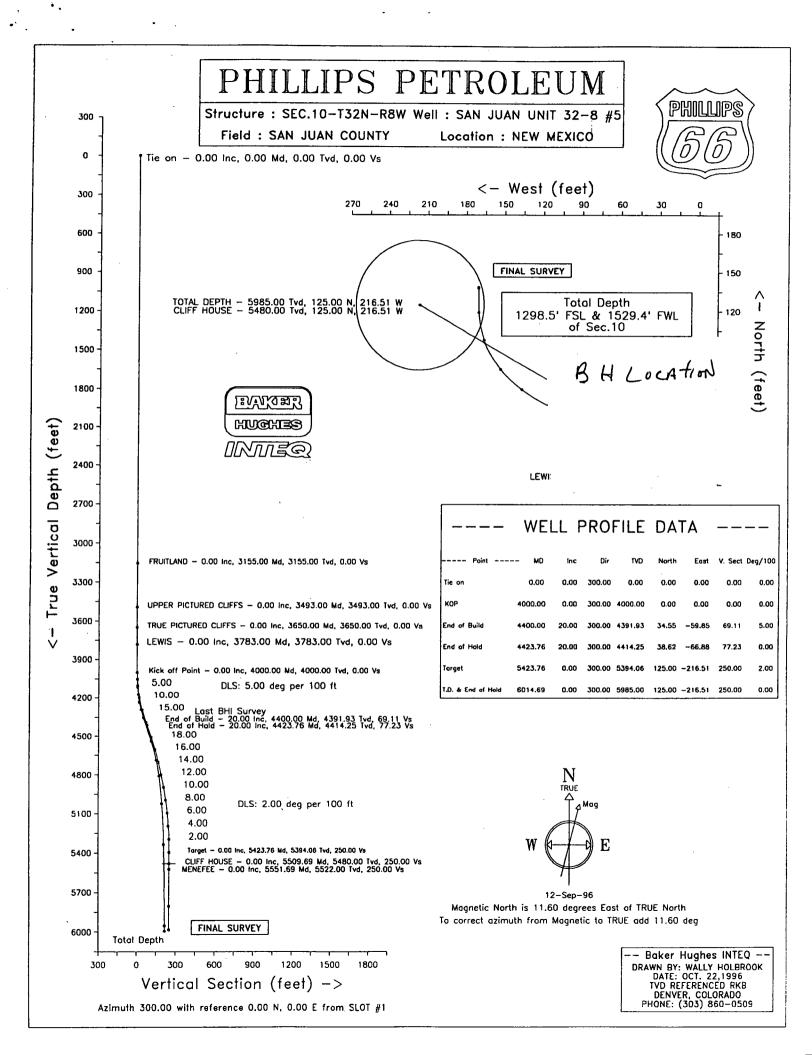
This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 22nd day of ________, 1996_.

Certification Number:

431

Certification Date:

October 22, 1996



PHILLIPS PETROLEUM SEC.10-T32N-R8W

SAN JUAN UNIT 32-8 #5
SLOT #1
SAN JUAN COUNTY
NEW MEXICO

SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3753

License:

Date printed: 22-Oct-96 Date created: 14-Oct-96 Last revised: 22-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 58 22.005,w107 39 54.002

Slot location is n36 58 33.474, w107 39 33.053 Slot Grid coordinates are N 2174566.023, E 550871.083 Slot local coordinates are 1160.00 N 1700.00 E

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM
SEC.10-T32N-R8W, SAN JUAN UNIT 32-8 #5
SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Single Shot Survey

Last revised: 22-Oct-96

0.00 0.00 0.00 0.00 N 0.00 E 0.00 0.00	
4000.00 0.00 0.00 4000.00 0.00 N 0.00 E 0.00 0.00	
4052.00 1.21 269.30 4052.00 0.01 S 0.55 W 2.33 0.47	
4114.00 3.74 305.10 4113.94 1.15 N 2.86 W 4.59 3.05	
4173.00 7.00 304.60 4172.67 4.30 N 7.39 W 5.53 8.55	
4235.00 10.50 282.60 4233.95 7.68 N 16.02 W 7.71 17.71	
4297.00 14.75 286.60 4294.44 11.17 N 29.10 W 6.99 30.79	
4359.00 19.00 291.60 4353.76 17.14 N 46.06 W 7.24 48.46 Last BHI Survey	
4553.00 17.50 293.60 4538.00 40.44 N 102.16 W 0.84 108.69	
4708.00 12.50 307.60 4687.72 60.03 N 136.83 W 3.96 148.52	
4832.00 8.75 321.60 4809.59 75.61 N 153.33 W 3.65 170.60	1
5047.00 5.25 343.60 5022.99 97.88 N 166.27 W 2.02 192.94	
5359.00 2.75 359.40 5334.22 119.06 N 170.38 W 0.87 207.09	
5979.00 0.75 359.40 5953.90 137.99 N 170.58 W 0.32 216.72 Total Depth is	
6020.00 0.75 359.40 5994.89 138.53 N 170.59 W 0.00 217.00 1298.5' FSL & 1529.4'	FWL

All data is in feet unless otherwise stated.

Coordinates from SLOT #1 and TVD from RKB (6650.00 Ft above mean sea level).

Bottom hole distance is 219.75 on azimuth 309.08 degrees from wellhead.

Vertical section is from wellhead on azimuth 300.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.10-T32N-R8W, SAN JUAN UNIT 32-8 #5 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref: Single Shot Survey
Last revised: 22-Oct-96

Comments in wellpath

					
MD	TVD	Rectangular	Coords.	Comment	
4359.00	4353.76	17.14 N	46.06 W	Last BHI Survey	
5979.00	5953.90	137.99 N	170.58 W	Total Depth is	
6020.00	5994.89	138.53 N	170.59 W	1298.5' FSL & 1529.4' FWL	

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular	Revised
CLIFF HOUSE 32-8 #5		5480.00	125.00N	16-Aug-96



RECEIVED

1700 Broadway Suite 1450 Denver Colorado 80290 (303) 860-0509 5 (303) 830-2546

REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

DECEIVED

NOV - 5 1996

OUL CON. DIV.
DUST. 3

Phillips Petroleum
COMPANY

San Juan Unit 32-8 #20 WELL NAME

San Juan County, New Mexico LOCATION

JOB NUMBER 410-80532

TYPE OF SURVEY
MSS

DATE
October 3, 1996

SURVEYED BY Butch Judge

OFFICE DENVER



SURVEY CERTIFICATION SHEET

Phillips Petroleum

<u>410-80532</u>

October 3, 1996

Company

Job#

Date

Sec-4-T31N-R8W

San Juan Unit 32-8 #20

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,503 feet to 3,736 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Butch Judge

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Sr. Drilling Engineer

My commission expires luquest 4, 2000

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 22nd day of 12tolier, 1996.

Certification Number:

430

Certification Date:

October 22, 1996

LIPS PETROLEUM Structure: SEC.4-T31N-R8W Well: SAN JUAN UNIT 32-8 #20 Field: SAN JUAN COUNTY **Location: NEW MEXICO** 0 Tie on WELL PROFILE DATA V. Sect Deg/100 East 300 PHILLIPS Tie on 0.00 0.00 120.00 0.00 0.00 0.00 0.00 0.00 600 KQP 3475.00 0.00 0.00 120.00 3475.00 0.00 0.00 0.00 End of Build 3875.00 20.00 120.00 3866.93 69.11 59.85 5.00 900 3898.76 20.00 77.23 120.00 3889.25 -38.62 66.88 0.00 Target 4898.76 0.00 120.00 4869.06 -- 125.00 216.51 250.00 2.00 1200 T.D. & End of Hold 0.00 120.00 5825.00 -125.00 216.51 250.00 0.00 1500 East (feet) -> 160 280 320 360 1800 LEWIS - 3478.00 Tvd, 0.00 S, 0.00 E **ENVIXORE** 0 True Vertical Depth (feet) 2100 HUCKES Last BHI Survey 40 2400 CLIFF HOUSE - 5305.00 Tvd, 125.00 S, 216.51 E 80 2700 120 FRUITLAND - 0.00 Inc. 2970.00 Md, 2970.00 Tvd, 0.00 Vs 3000 \$625,00 ho, 125,00 \$ 216.51 £ (teet) 3300 PICTURED CLIFFS - 0.00 Inc. 3325.00 Md. 3325.00 Tvd. 0.00 Vs Kick off Point - 0.00 Inc, 3475.00 Md, 3475.00 Tvd, 0.00 Vs 200 5.00 DLS: 5.00 deg per 100 ft 3600 15.00 Last BHI Survey 240 End of Build — 20.00 Inc. 3875.00 Md, 3866.93 Tvd, 69.11 Vs End of Hold — 20.00 Inc. 3898.76 Md, 3889.25 Tvd, 77.23 Vs 3900 18.00 280 16.00 14.00 DLS: 2.00 deg per 100 ft 4200 12.00 Total Depth 10.00 320 1224.1' FSL & 1238.4' FWL of Sec.4 8.00 4500 6.00 4.00 360 FINAL SURVEY 2.00 4800 Target - 0.00 Inc, 4898.76 Md, 4869.06 Tvd, 250.00 Vs Baker Hughes INTEQ --DRAWN BY: WALLY HOLBROOK DATE: OCT. 22,1996 TYD REFERENCED RKB 5100 CLIFF HOUSE - 0.00 Inc. 5334.69 Md. 5305.00 Tvd. 250.00 Vs MENEFEE - 0.00 Inc. 5379.69 Md. 5350.00 Tvd. 250.00 Vs DENVER, COLORADO PHONE: (303) 860-0509 5400 5700 Total Depth FINAL SURVEY 6000 300 600 900 1200 1500 1800 300 Magnetic North is 11.51 degrees East of IRUE North Vertical Section (feet) -> To correct azimuth from Magnetic to TRUE add 11.51 deg Azimuth 120.00 with reference 0.00 N, 0.00 E from SLOT #1

PHILLIPS PETROLEUM SEC.4-T31N-R8W

SAN JUAN UNIT 32-8 #20 SLOT #1 SAN JUAN COUNTY NEW MEXICO

SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Surveys

Our ref : svy3746

License:

Date printed: 22-Oct-96
Date created: 3-Oct-96
Last revised: 22-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 50 0.000,w107 30 0

Slot location is n36 50 15.425,w107 29 48.806 Slot Grid coordinates are N 2124326.988, E 598455.086 Slot local coordinates are 1560.00 N 910.00 E

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM SEC.4-T31N-R8W, SAN JUAN UNIT 32-8 #20 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1

Your ref : Single Shot Surveys Last revised : 22-Oct-96

Measured Depth		Azimuth Degrees	True Vert Depth				T Z							Dogleg Deg/100ft	Vert Sect									
_ op	-									 _	_	_												
0.00	0.00	0.00	0.00			0.	00	N			0.	00	\mathbf{E}	0.00	0.00)								
3503.00	0.00	120.00	3503.00			0.	00	N			0.	00	\mathbf{E}	0.00	0.00)	,							
3553.00	4.00	130.00	3552.96			1.	12	S			1.	34	E	8.00	1.72	?								
3646.00	10.50	140.00	3645.17			9.	71	S			9.	28	E	7.09	12.89)								
3736.00	17.00	134.00	3732.55		2	5.	15	S		2	4.	03	E	7.38	33.38		ast	BHI	Su	rve	У	~		
3842.00	17.50	134.50	3833.78		4	7.	80	s		4	6.	54	E	0.49	63.85	5				•				
3965.00	17.00	133.50	3951.25		7	2.	42	S		7	2.	78	E	0.47	99.24	ļ								
4086.00	19.00	132.50	4066.32		9	7.	91	S		10	0.	13	E	1.67	135.67									
4210.00	20.00	134.50	4183.21		12	6.	41	S		13	0.	14	E	0.97	175.91									
4367.00	20.00	137.50	4330.74		16	5.	02	S		16	7.	43	E	0.65	227.51									
4676.00	14.00	145.50	4626.15		23	4.	86	s		22	4.	36	E	2.08	311.73	}								
4826.00	11.00	133.50	4772.60		25	9.	67	S		24	5.	03	E	2.64	342.03									
4985.00	9.00	135.50	4929.17		27	8.	99	S				75		1.28	368.77									,
5140.00	7.00	135.50	5082.66		29	4.	37	S		27	9.	87	E	1.29	389.56	5								
5451.00	5.00	133.50	5391.94		31	7.	22	S		30	2.	98	E	0.65	421.00									
						_		_	•		_		_					_						5
5730.00	4.00	122.50	5670.08				82					01		0.47	442.54									
5885.00	3.25	119.50	5824.77	-	33	5.	89	S		32	8.	39	E	0.50	452.34	1	224	.1'	FSL	. &	1238	.4′	FW	L

All data is in feet unless otherwise stated. Coordinates from SLOT #1 and TVD from RKB (6458.00 Ft above mean sea level).

Bottom hole distance is 469.75 on azimuth 135.65 degrees from wellhead.

Vertical section is from wellhead on azimuth 120.00 degrees. Calculation uses the minimum curvature method. Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.4-T31N-R8W, SAN JUAN UNIT 32-8 #20 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref: Single Shot Surveys
Last revised: 22-Oct-96

Comments in wellpath

MD	TVD	Rectangular	Coords.	Comment	
3736.00	3732.55	25.15 S	24.03 E	Last BHI Survey	
5730.00	5670.08	330.82 S	320.01 E	Total Depth is	
5885.00	5824.77	335.89 S	328.39 E	1224.1' FSL & 1238.4' FWL	

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular		
TGT 32-8 #20		5305.00	125.00S	216.51E	16-Aug-96

CMD : OG5SECT

ONGARD
INQUIRE LAND BY SECTION

07/12/97 12:08:24

OGOMES -EMGB PAGE NO: 1

Sec : 24 Twp : 31N Rng : 08W Section Type : NORMAL

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4		`-	3	2	1
38.78		ļ	38.78	38.21	38.21
Federal U	owned	 	Federal owned U	 Federal owned U	 Federal owned U
5 38.77		. 	6 38.77	7 38.21	8 38.20
Federal U	owned		Federal owned U	Federal owned U A	Federal owned U A
PF01 HELP PF07 BKWD	PF02 PF08	FWD	PF03 EXIT PF09 PRINT	PF04 GoTo PF05	

CMD : OG5SECT

PF01 HELP PF02

PF08 FWD

PF07 BKWD

ONGARD
INQUIRE LAND BY SECTION

07/12/97 12:08:29 OGOMES -EMGB

PF06

PF12

PF05

PF11

PAGE NO: 2

Sec : 24 Twp : 31N Rng : 08W Section Type : NORMAL

	•		-						
21 22 23	17	18	19	13	14	15	10	11	12
2.42				2.38	2.39	2.39	2.38	2.38	2.38
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Federal owned	 Federal	owned		 Federa	l owne	ed	 Federa	l owne	ed
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117 118 119	113	114	115	100	109	110	101	102	103
2.42				2.40	2.41	2.41	2.40	2.40	2.40
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PF03 EXIT PF04 GoTo

PT09 PRINT PF10 SDIV



Begin New File

SEAPORT IMAGING

Ensign™

ALL
Begin New File
This is used only with multi-image file formats.





November 6, 1996

State of New Mexico
Oil Conservation Division
204 South Pacheco
Santa Fe, New Mexico 87505

ATTN: MR. WILLIAM J. LEMAY

RE:

ADMINISTRATIVE APPROVAL OF INTENTIONAL WELL DEVIATION

SAN JUAN 32-8 UNIT #10 WELL NE/4 SECTION 24-T31N-R8W, SAN JUAN COUNTY, NEW MEXICO PHILLIPS' G.F.-5465, LCN 650117

Gentlemen:

Phillips Petroleum Company ("Phillips"), as Operator of the San Juan 32-8 Unit, requests administrative approval of the intentional deviation of the above-described well.

The San Juan 32-8 Unit #10 Well was originally drilled in 1955 and completed as a Blanco Mesaverde Pool well. Enclosed is a copy of the original plat for this well which indicates the original location of 1800' FNL and 952' FEL.

Phillips has abandoned the existing Blanco Mesaverde interval in this well, sidetracked and completed in the Blanco Mesaverde at a bottom-hole location of 1587' FNL and 1172' FEL Section 24-T31N-R8W. Enclosed are three copies of a new well location and acreage dedication plat and sub-surface directional survey confirming the well's bottom-hole location.

A copy of this notice has been furnished to Devon Energy Corp, the offsetting Blanco Mesaverde Pool operator.

Please advise if additional information is required.

Very truly yours,

Patrick H. Noah Senior Land Specialist San Juan Basin (505) 599-3410

cc: J.L. Mathis (r) G.F. 5465 Ernie Busch-OCD, Aztec

2. Companie NEW MEXICO OIL CONSERVATION COMMISSION 1-R. S. Richay SANTA FE, NEW MEXICO

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

	•			and the second s	
Company or Operat	or Pacific Inditale	est publics (XAP.	Lease Ean Just	12-8
Well No 10-34	_Unit Letter	S 24 T 118	R Poc	l Flance IV	
County Sun Suan	Kind a	of Leage (Sta	te. Fed. or	Patented)	
If well produces oil		• •			
Authorized Transpo					a san as a language
		A of Asimbo Asia			
Address Formingto	ddress to which a	pproved conv	of this for	m is to be sent)	A STATE OF THE STA
Authorized Transpo	White Commence of Marketine		- 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Address Farmingt				- Marie Ballina	er sur portugio
(Give a	ddress to which a	pproved copy	of this forr	n is to be sent)	
If Gas is not being	sold, give reasons	and also ex	plain its pre	esent disposition	
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The undersigned cer	tifies that the Rul	es and Regul	ations of th	JAN 6 1956 e Oil Conservati	on Com-
mission have been c	omplied with.		· · · · · · · · · · · · · · · · · · ·	N	
Executed this the 🏖	th day of Breenber	R 10 6 4		DIST. 3	
executed this the	The second state of the second	₽ <u>195</u>			
		В		signed by T. A. Du	dan »
Annward		10 C-C T	: Dietri		
Approved	7-6	19_J_(T	itle		
OIL CONSERV	ATION COMMISSI	ON C	ompany	CYIC ECATESET PI	PELLER CORP.
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Title Oil and Gas Insp	ector Dist. #3.		an arrest ports		

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Scale 4 inches equals 1 mile 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Surveyed	7.
This is to certify that the above plat was prepared from tield notes of actual surveys made by the or under my supervision and that the same are time and correct to the best of my knowledge and belief.	;y
Seci: N. MEX. REG. NO. 1463 REG. LAND SURVEYOR	3

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102
Revised October 18, 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 ³ Pool Code					³ Poul Name							
30-045-	5-10562 72319 Blanco Mesave						erde					
Property C 009261									* Well Number #10			
'OGRID No. Operator Name 017654 Phillips Petroleum Company									650	* Elevation		
L	1			:	10 Sur	face	Location					
UL or lot no.	Section 24	Township 31N	Range 8W	Lot Ida	Feet from 1800	the	North/South line North	Feet from the 952	East/Wes East	t line	County San Juan	
			I	tom Hol	e I ocati	on I	Different Fro	m Surface	L		<u> </u>	
UL or lot no.	Section	Township	Range	Lot Ida	Feet from		North/South line	Feet from the	East/Wes	t line	County	
Н	24	31N	8W	250 124	1587		North	1172	East		San Juan	
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320 ac	N] -	U									
NO ALLOW	ABLE \						ON UNTIL ALL I			EN COI	NSOLIDATED	
16					SF-0	5	1172'- 952'-	Signature Richa Printed Name Produc Title 18 SURV I hereby certify was plotted from	rd A. tion EYOR y that the we com field note: ny supervision the best of n	Alli Super CERT	TIFICATION I shown on this plat I surveys made by In the same is true	

Certificate Number



1700 Broadway Suite 1450 Denver Colorado 80290 (303) 860-0509 Fax (303) 830-2546

REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

Phillips Petroleum
COMPANY

San Juan Unit 32-8 #10
WELL NAME

San Juan County, New Mexico
LOCATION

JOB NUMBER

410-80536

TYPE OF SURVEY

MSS

DATE

October 21, 1996

SURVEYED BY

Max Lund

OFFICE DENVER



1700 Broadway Suite 1450 Denver Colorado 80290 (303) 860-0509 Fax (303) 830-2546

SURVEY CERTIFICATION SHEET

Phillips Petroleum

410-80536

October 21, 1996

Company

Job#

Date

Sec-24-T31N-R8W

San Juan Unit 32-8 #10

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,900 feet to 4,358 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Max Lund

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Walter D. Lowry Sr. Drilling Enginee

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of

Colorado, this 24th day of Cotoler, 1996.

11010.7

_My commission expires duquet 4, 2000

Certification Number:

432

Certification Date:

October 23, 1996

PHILLIPS PETROLEUM Structure: SEC.24-T31N-R8W Well: SAN JUAN UNIT 32-8 #10 Field: SAN JUAN COUNTY Location: NEW MEXICO 0 Tie on - 0.00 Inc. 0.00 Md, 0.00 Tvd, 0.00 Vs <- West (feet) 240 210 180 150 120 60 30 300 240 Projection to T.D. Total Depth 600 210 1587.1' FNL & 1172.4' FEL FINAL SURVEY of Sec.24 900 180 1200 150 TOTAL DEPTH - 5835.00 Tvd, 125.00 N, 216.51 W CUFF HOUSE - 5312.00 Tvd, 124.41 N, 215.49 W 1500 1800 Last BHI Survey **ENVIXORS** 2100 60 Depth (feet) KUGKIES 2400 30 2700 0 LEWIS - 3490.00 Tvd, 0.00 S, 0.00 W True Vertical FRUITLAND - 0.00 Inc, 2975.00 Md, 2975.00 Tvd, 0.00 Vs 3000 WELL PROFILE DATA 3300 PICTURED CLIFFS - 0.00 Inc, 3408.00 Nd, 3408.00 Tvd, 0.00 Vs TVn North V. Sect Deg/100 LEWIS - 0.00 Inc, 3490.00 Md, 3490.00 Tvd, 0.00 Vs 3600 Tie or 0.00 0.00 300.00 0.00 0.00 0.00 0.00 0.00 KOP 4000.00 0.00 300.00 4000.00 0.00 0.00 0.00 0.00 3900 End of Build 4400.00 20.00 300 00 4391 93 34.55 69 11 5.00 Kick aff Point - 0.00 Inc, 4000.00 Nd, 4000.00 Tvd, 0.00 Vs 5.00 End of Hold 4423.76 20.00 300.00 4414.25 38.62 77.23 0.00 OLS: 5.00 deg per 100 ft 10.00 4200 15.00 Last BHI Survey Target 5423.76 0.00 300.00 5394.06 125.00 -216.51 250.00 2.00 End of Build - 20.00 Inc. 4400.00 Md. 4391.93 Tvd. 69.11 Vs End of Hold - 20.00 Inc. 4423.76 Md. 4414.25 Tvd. 77.23 Vs 18.00 T.D. & End of Hold 5864.69 0.00 300.00 5835.00 125.00 -216.51 250.00 0.00 4500 16.00 14.00 12.00 4800 DLS: 2.00 deg per 100 ft TRUE 10.00 8.00 6.00 5100 4.00 2.00 CLIFF HOUSE - 1.64 Inc. 5341.68 Md. 5312.00 Tvd. 248.82 Vs Target - 0.00 Inc, 5423.76 Md, 5394.06 Tvd, 250.00 Vs 5400 POINT LOOKOUT - 0.00 Inc, 5702.69 Md, 5673.00 Tvd, 250.00 Vs 16-Aug-96 5700 Magnetic North is 11.57 degrees East of TRUE North To correct azimuth from Magnetic to TRUE add 11.57 deg Projection to T.D. FINAL SURVEY 6000 – Baker Hughes INTEQ –-300 1200 DRAWN BY: WALLY HOLBROOK DATE: OCT. 23,1996 TVD REFERENCED RKB

DENVER, COLORADO PHONE: (303) 860-0509

Vertical Section (feet) ->

Azimuth 300.00 with reference 0.00 N, 0.00 E from SLOT #1

PHILLIPS PETROLEUM SEC.24-T31N-R8W

SAN JUAN UNIT 32-8 #10 SLOT #1 SAN JUAN COUNTY NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3760

License:

Date printed: 23-Oct-96 Date created: 21-Oct-96 Last revised: 23-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 53 13.005,w107 36 45.004

Slot location is n36 52 55.207,w107 36 56.721 Slot Grid coordinates are N 2140384.186, E 563634.003 Slot local coordinates are 1800.00 S 952.00 W

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1

Your ref : Single Shot Survey Last revised : 23-0ct-96

Measured			True Vert	REC	TAN	G	UL	A R		Dogleg	Vert	
Depth	Degrees	Degrees	Depth	COO	RDI	N	АТ	ES		Deg/100ft	Sect	
0.00	0.00	0.00	0.00	0.	00 N			0.00	E	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.	00 N			0.00	E	0.00	0.00	
3987.00	3.13	321.40	3986.96	1.	86 N			1.48		3.60	2.21	
4049.00	8.78	323.70	4048.60	7.	00 N			5.34		9.12	8.13	
4079.00	10.75	326.60	4078.16	11.	18 N			8.24		6.77	12.72	
4141.00	14.75	326.50	4138.62	22.	59 N			15.78	W	6.45	24.96	
4173.00	17.50	325.50	4169.36	29.	96 N			20.76	W	8.64	32.95	
4204.00	20.00	325.50	4198.71	38.	17 N			26.40	W	8.06	41.95	
4267.00	21.50	314.50	4257.65	55.	15 N			40.74	W	6.62	62.86	
4358.00	20.00	300.50	4342.79	74.	75 N			66.06	W		94.58	Last BHI Survey
4498.00	17.50	298.50	4475.35	96.	94 N		1	05.20	W	1.84	139.57	
4623.00	15.50	303.50	4595.21	115.	13 N		1	35.64	W	1.96	175.04	
4931.00	7.25	317.50	4896.95	152.	25 N		1	83.18	W.	2.81	234.76	•
5238.00	4.75	324.60	5202.24	176.	89 N		2	03.64	W	0.85	264.80	
5517.00	3.00	340.00	5480.60	193.	17 N		2	12.83	W		280.90	· -
5885.00	3.50	338.40	5848.01	212.	67 N		2	20.26	W	0.14	297.08	Projection to T.D. is
5890.00	3.50	338.40	5853.00		95 N			20.37				1587.1' FNL & 1172.4' FEL

All data is in feet unless otherwise stated. Coordinates from SLOT #1 and TVD from RKB (6501.00 Ft above mean sea level).

Bottom hole distance is 306.45 on azimuth 314.02 degrees from wellhead.

Vertical section is from wellhead on azimuth 300.00 degrees. Calculation uses the minimum curvature method. Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Single Shot Survey
Last revised : 23-Oct-96

Comments	in	wellpath
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	MD	TVD	Rectangular	Coords.	Comment
•	4358.00 5885.00 5890.00	4342.79 5848.01 5853.00	74.75 N 212.67 N 212.95 N	220.26 W	Last BHI Survey Projection to T.D. is 1587.1' FNL & 1172.4' FEL
			•	Targets a	associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular	Revised
TGT 32-8 #10	:	5312.00	125.00N	 16-Aug-96



November 6, 1996

State of New Mexico
Oil Conservation Division
204 South Pacheco
Santa Fe, New Mexico 87505

ATTN: MR. WILLIAM J. LEMAY

RE:

ADMINISTRATIVE APPROVAL OF INTENTIONAL WELL DEVIATION

SAN JUAN 32-8 UNIT #10 WELL NE/4 SECTION 24-T31N-R8W, SAN JUAN COUNTY, NEW MEXICO PHILLIPS' G.F.-5465, LCN 650117

Gentlemen:

Phillips Petroleum Company ("Phillips"), as Operator of the San Juan 32-8 Unit, requests administrative approval of the intentional deviation of the above-described well.

The San Juan 32-8 Unit #10 Well was originally drilled in 1955 and completed as a Blanco Mesaverde Pool well. Enclosed is a copy of the original plat for this well which indicates the original location of 1800' FNL and 952' FEL.

Phillips has abandoned the existing Blanco Mesaverde interval in this well, sidetracked and completed in the Blanco Mesaverde at a bottom-hole location of 1587' FNL and 1172' FEL Section 24-T31N-R8W. Enclosed are three copies of a new well location and acreage dedication plat and sub-surface directional survey confirming the well's bottom-hole location.

A copy of this notice has been furnished to Devon Energy Corp, the offsetting Blanco Mesaverde Pool operator.

Please advise if additional information is required.

Very truly yours,

Patrick H. Noah Senior Land Specialist San Juan Basin

(505) 599-3410

cc: J.L. Mathis (r) G.F. 5465 Ernie Busch-OCD, Aztec For the NEW MEXICO OIL CONSERVATION COMMISSION

1-8. S. Richey SANTA FE, NEW MEXICO

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PACIFIC MATHEM FIR	ELIES CORP. Lease San June 18-8
Well No Unit Letter n S pa	Ton Ray Pool Plence
County san fuen Kind of Lea	se (State, Fed. or Patented)
If well produces oil or condensate, give loc	cation of tanks: Unit
Authorized Transporter of Oil or Condensa	
Address Paralacton, New Mortes	
The first that the state of the first term of the first term of the second of the second of the first term of the second of the	ed copy of this form is to be sent)
Authorized Transporter of Gas prop 14	
Address Fermington, Rev Menico	ed copy of this form is to be sent)
If Gas is not being sold, give reasons and a	
Reasons for Filing:(Please check proper bo	N W
	() Dry Gas () C'head () Condensate ()
ominge in Transporter of Check One). Off	() Dry Gas () C head () Condensate ().
Change in Ownership (Other
Remarks:	(Give explanation below)
Drilled by El Peso Fatural Gas Co., admitte Pacific Forthwest assumed operations Hovenbe	d to fan Juan 32-8 Ball Movembur 6, 2955.
	RECEIVED
The undersigned certifies that the Rules and mission have been complied with.	JAN 6 1956 Regulations of the Oil Conservation Com- OIL CON. COM. DIST. 3
Executed this the 20th day of December	19 55
	ByOriginal signed by T. A. Dugan
Approved /- 6 19 J	Title Statuted Englaces
OIL CONSERVATION COMMISSION	Company FACIFIC ECRIPAGE PIPELINE COMP.
By Timen Clund	Address Alle Fest Main Street
Title Oil and Gas Inspector Dist. #3.	Fernington, New Mexico

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COMPANY	EL PAS	O MATE	JRAL GA	S COMP	ANY	:		······································	and the second of the second o
Well Name &	No	SAN	JUAN 3	2 – 8 UN	IT #	10-24	· . :	Leas	e No. SF-079-351
Legation	1800 F	EET_F	ROM THE	NORTH	LINE	AND	952 FE	ET FRO	M THE EAST LUNE.
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Sec. <u>24</u> , T3	1N., K.	∟W., N.	M.P.M.,	SAN	JUAN (ю.		1 -	
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Tarana - N	المراجعة		t. .		*,5} 				
Farmington, 1	ers signal				1.64,	_			

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 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

1,50	'API Number 'Pool Code								·		
		_	Pool Cod	1	D1 4		³ Pool Name				
30-045-1056	2	1 7	2319		Blanco Mesa	verae					
⁴ Property Code 009261	San 3	Juan	n 32-8 Unit #10								
'ogrid n₀. 017654	Phill	lips	Petro	'Oper leum Co	ator Name mpany			650	* Elevation		
				10 Surfa	ce Location			·			
UL or lot no. Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West line County				
н 24	31N	8W		1800	North	952	East		San Juan		
		11 Botte	om Hol	e Location	If Different Fi	rom Surface	· .		<u> </u>		
UL or lot no. Section		Range	Lot Ida	Feet from th	· · · · · · · · · · · · · · · · · · ·	Feet from the	East/Wes	t line	County		
н 24	31N	8W		1587	North	1172	East	t	San Juan		
13 Dedicated Acres 13 Joint	or Infill " Con	nsolidation	Code u C	order No.	1 KOL CII	1	1		<u> </u>		
320 ac	1	U	į								
NO ALLOWABLE					TION UNTIL ALL BEEN APPROVEI			EN CON	SOLIDATED		
16				SF-07	2.0081 1172- 952.	Signature Richa Printed Nam Product Title 18SURV I hereby certif was plotted for	ify that the inplete to the bard A. The card A. The car	Allr Super CERT dl location s of actual n, and than ny belief.	Fintenden IFICATION shown on this plat surveys made by the same is true		



1700 Broadway Suite 1450 Denver Colorado 80290 (303) 860-0509 Fax (303) 830-2546

REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

Phillips Petroleum
COMPANY

San Juan Unit 32-8 #10
WELL NAME

San Juan County, New Mexico
LOCATION

JOB NUMBER 410-80536 TYPE OF SURVEY
MSS

DATE
October 21, 1996

SURVEYED BY
Max Lund

<u>OFFICE</u> DENVER



1700 Broadway Suite 1450 Denver Colorado 80290 (303) 860-0509 Fax (303);830-2546

SURVEY CERTIFICATION SHEET

Phillips Petroleum

410-80536

October 21, 1996

Company

Job#

Date

Sec-24-T31N-R8W

San Juan Unit 32-8 #10

San Juan County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,900 feet to 4,358 feet MD

Type of Survey

MSS

Directional Supervisor/Surveyor

Max Lund

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Walter D. Lowry
Sr. Drilling Enginee

My commission expires August 4 3000

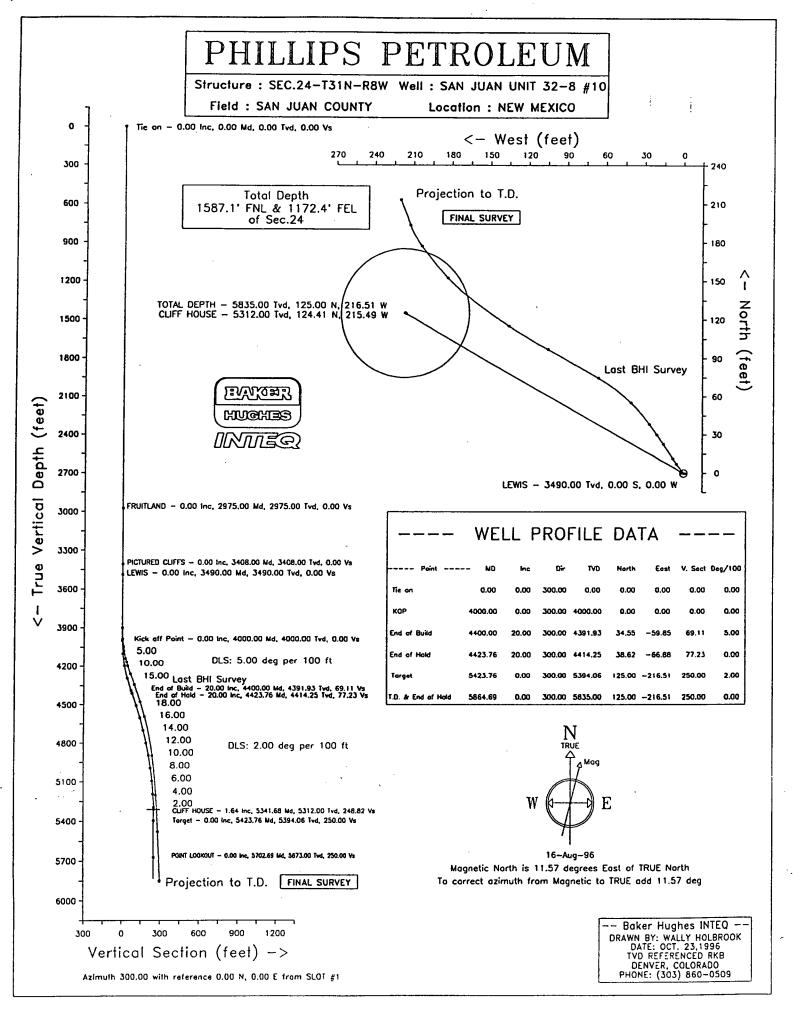
This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 34th day of 1996.

Certification Number:

432

Certification Date:

October 23, 1996



PHILLIPS PETROLEUM SEC.24-T31N-R8W

SAN JUAN UNIT 32-8 #10 SLOT #1 SAN JUAN COUNTY NEW MEXICO

SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3760

License:

Date printed: 23-Oct-96 Date created: 21-Oct-96 Last revised: 23-Oct-96

Field is centred on n36 50 0.000,w107 30 0 Structure is centred on n36 53 13.005,w107 36 45.004

Slot location is n36 52 55.207,w107 36 56.721 Slot Grid coordinates are N 2140384.186, E 563634.003 Slot local coordinates are 1800.00 S 952.00 W

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is True North

PHILLIPS PETROLEUM SEC. 24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 1 Your ref : Single Shot Survey Last revised : 23-Oct-96

Measured			True Vert	RECTA					Dogleg	Vert	
Depth	Degrees	Degrees	Depth	COORI) I N	I A 1	r e s		Deg/100ft	Sect	
0.00	0.00	0.00	0.00	0.00	N		0.00	E	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	N		0.00	E	0.00	0.00	
3987.00	3.13	321.40	3986.96	1.86	N		1.48	W	3.60	2.21	•
4049.00	8.78	323.70	4048.60	7.00	N		5.34	W	9.12	8.13	
4079.00	10.75	326.60	4078.16	11.18	N		8.24	W	6.77	12.72	•
4141.00	14.75	326.50	4138.62	22.59	N		15.78	W	6.45	24.96	
4173.00	17.50	325.50	4169.36	29.96	N		20.76	W	8.64	32.95	
4204.00	20.00	325.50	4198.71	38.17	N		26.40	W	8.06	41.95	
4267.00	21.50	314.50	4257.65	55.15	N		40.74	W	6.62	62.86	
4358.00	20.00	300.50	4342.79	74.75	N		66.06	W	5.68	94.58	Last BHI Survey
4498.00	17.50	298.50	4475.35	96.94	N		105.20	W	1.84	139.57	•
4623.00	15.50	303.50	4595.21	115.13	N		135.64	W	1.96	175.04	
4931.00	7.25	317.50	4896.95	152.25	N		183.18	W	2.81	234.76	•
5238.00	4.75	324.60	5202.24	176.89	N	;	203.64	W	0.85	264.80	, marine
5517.00	3.00	340.00	5480.60	193.17	N		212.83	W	0.72	280.90	
5885.00	3.50	338.40	5848.01	212.67	N	:	220.26	W	0.14	297.08	Projection to T.D. is
5890.00	3.50	338.40	5853.00	212.95			220.37		0.00		1587.1' FNL & 1172.4' FEL

All data is in feet unless otherwise stated. Coordinates from SLOT #1 and TVD from RKB (6501.00 Ft above mean sea level).

Bottom hole distance is 306.45 on azimuth 314.02 degrees from wellhead.

Vertical section is from wellhead on azimuth 300.00 degrees. Calculation uses the minimum curvature method. Presented by Baker Hughes INTEQ

PHILLIPS PETROLEUM SEC.24-T31N-R8W, SAN JUAN UNIT 32-8 #10 SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref: Single Shot Survey
Last revised: 23-Oct-96

	MD	TVD	Rectangular	Coords.	Comment
•	5885.00	4342.79 5848.01 5853.00	74.75 N 212.67 N 212.95 N	220.26 W	Last BHI Survey Projection to T.D. is 1587.1' FNL & 1172.4' FEL
				Targets a	associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular		Revised
TGT 32-8 #10		5312.00	125.00N	216.51W	16-Aug-96