



### 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-186(NSBHL)

Dear Mr. Noah:

Reference is made to your application dated November 18, 1996 authorizing Phillips Petroleum Company's ("Phillips") recent recompletion of its San Juan "29-6" Unit Well No. 15 (API No. 30-039-07692) by side tracking off of the existing vertical wellbore and directionally drilling to a pre-determined unorthodox bottomhole gas well location in order to further develop the Blanco-Mesaverde Pool underlying the existing standard 319.13-acre gas spacing and proration unit ("GPU") comprising Lots 7 and 8, the S/2 NW/4, and the SW/4 (W/2 equivalent) of Section 2, Township 29 North, Range 6 West, NMPM, Rio Arriba 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 "29-6" Unit Well No. 15, located at a standard surface gas well location 1657 feet from the South line and 1650 feet from the West line (Unit K) of said Section 2, was originally drilled to and completed in the Blanco-Mesaverde Pool in 1955;
- (3) The infill well for the subject GPU is the San Juan "29-6" Unit Well No. 15-A (API No. 30-039-21120), located at a standard gas well location 1040 feet from the North line and 1465 feet from the West line (Lot 7/Unit C) of said Section 2;
- (4) This application has been duly filed under the applicable provisions of said special pool rules and 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

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Ree: 11-20-96 Susp: 12-9-96 Release: 7-14-96

July 14, 1997

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

Attention: Patrick H. Noah

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### 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 "29-6" Unit Well No. 15, located at a standard surface gas well location 1657 feet from the South line and 1650 feet from the West line (Unit K) of said Section 2, was originally drilled to and completed in the Blanco-Mesaverde Pool in 1955;
- (3) The infill well for the subject GPU is the San Juan "29-6" Unit Well No. 15-A (API No. 30-039-21120), located at a standard gas well location 1040 feet from the North line and 1465 feet from the West line (Lot 7/Unit C) of said Section

- (4) This application has been duly filed under the applicable provisions of said special pool rules and 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;
- (5) As indicated by the directional survey, dated November 5, 1996, on file with the Division, the actual bottomhole location for this well within the Blanco-Mesaverde is now 1571 feet from the South line and 1415 feet from the West line (Unit K) of said Section 2; and,
- (6) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E and Rule 2(d) of said special pool rules, the subject application should be approved.

### IT IS THEREFORE ORDERED THAT:

- (1) The recompletion by Phillips Petroleum Company of its San Juan "29-6" Unit Well No. 15 (API No. 30-039-07692), located at a standard surface gas well location 1657 feet from the South line and 1650 feet from the West line (Unit K) of Section 2, Township 29 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, by side tracking off of the existing vertical wellbore and directionally drilling to its present unorthodox bottomhole gas well location within the Blanco-Mesaverde Pool 1571 feet from the South line and 1415 feet from the West line (Unit K) of said Section 2, is hereby approved.
- (2) Blanco-Mesaverde gas production from both the existing San Juan "29-6" Unit Well No. 15-A (API No. 30-039-21120), located at a standard infill gas well location 1040 feet from the North line and 1465 feet from the West line (Lot 7/Unit C) of said Section 2, and said San Juan "29-6" Unit Well No. 15, as described above, shall be attributed to the existing 319.13-acre standard gas spacing and proration unit ("GPU") comprising Lots 7 and 8, the S/2 NW/4, and the SW/4 (W/2 equivalent) of said Section 2.
- (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. LEMAY Director

# SEAL

# WJL/MES/kv

cc: Oil Conservation Division - Aztec

New Mexico State Land Office - Santa Fe

DD 12/9/96

Phillips.1



November 18, 1996

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

NOV 2 0 1996

OIL CONSERVATION DIVISION

ATTN: MR. WILLIAM J. LEMAY

RE: EXCEPTION FOR UNORTHODOX LOCATION AND FIELD RULES AND

ADMINISTRATIVE APPROVAL OF INTENTIONAL WELL DEVIATION

SAN JUAN 29-6 UNIT #15 WELL SW/4 SECTION 2-T29N-R6W,

RIO ARRIBA COUNTY, NEW MEXICO

PHILLIPS' G.F.-5396, LCN 650112

### Gentlemen:

Phillips Petroleum Company ("Phillips"), as Operator of the San Juan 29-6 Unit, requests administrative approval of the unorthodox location of the above-described #15 Well due to intentional deviation of the well.

The San Juan 29-6 Unit #15 Well was originally drilled in 1955 and completed as a Blanco Mesaverde Pool well at a location of 1657' FSL and 1650' FWL.

Phillips has abandoned the existing Blanco Mesaverde interval in this well, sidetracked and completed in the Blanco Mesaverde at a bottom-hole location of 1571' FSL and 1415' FWL Section 10-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 Burlington Resources, as operator of the offsetting Blanco Mesaverde Pool wells.

Please advise if additional information is required.

H Doah

Very truly yours,

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

cc: J.L. Mathis (r) G.F. 5396 Ernie Busch-OCD, Aztec Burlington Resources District I PO Beg 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

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

AMENDED REPORT

Fee Lease - 3 Copies

_		W	ELL LC	CATIO	N AND	ACF	REAGE DEDI	CATION P	LAT				
, ,	API Numb	er		<sup>3</sup> Pool Code <sup>3</sup> Pool Name									
30-039-	-0769	2	723	19		Blanco Mesaverde							
<sup>4</sup> Property 009257	Code	San	Juan 2	'Property Name 'Well Number an 29-6 Unit #15									
'ocrid 017654	No.	Phil	lips P	etrole	op eum Con		Name Oy				'E	levation	
···-					10 Surf	ace	Location					<del></del>	
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UL or let no.	Section	Township	Range	Lot Ida	Feet from	lbe	North/South line	Feet from the	East/West	line	C	county	
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NSL (BHI)



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 29-6 #15
WELL NAME

Rio Arriba County, New Mexico
LOCATION

JOB NUMBER

410-80535

TYPE OF SURVEY

MSS

DATE

November 3, 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

<u>410-80535</u>

November 3, 1996

Company

Job#

Date

Sec-2-T29N-R6W

San Juan Unit 29-6 #15

Rio Arriba County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,400 feet to 3,774 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 pro- cedures 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.

John Stoddard Operations Manager

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this <u>late</u> day of <u>November</u>, 19<u>26</u>.

My commission expires

Certification Number:

438

Certification Date:

November 12, 1996

# PHILLIPS PETROLEUM

Structure : SEC.2-T29N-R6W Well : SAN JUAN UNIT 29-6 #15
Field : RIO ARRIBA COUNTY Location : NEW MEXICO

Tie an - 0.00 inc, 0.00 Md, 0.00 Tvd, 0.00 Vs <- West (feet) 210 w PICTURED CLIFFS - 3350.00 Tvd, 0.00 S, 0.00 W 800 LERPS - 4150.00 Tvd, 19.22 S, 52.80 W South PHILLIPS 500 TOTAL DEPTH 1200 CUF TOTAL DEPTH HOUSE - 5225.00 Tvd, 83.38 S, 229.10 W - 5765.00 Tvd, 85.51 S, 234.92 W 1500 120 1800 True Vertical Depth (feet) 2100 WELL PROFILE DATA 2400 QJD ALAMO - 0.00 mg, 2458.00 Md, 2458.00 Tvd, 0.00 Vs V. Sect Deg/100 MRTLANG - 0.00 Inc. 2047.00 Md, 2647.00 Tvd, 0.00 Ver 0.00 0.00 280.00 0.00 9.00 0.00 0.00 0.00 2700 3800.00 0.00 250 CO 3500 00 0.000 aan 0.00 0.00 3000 20.89 6.50 -7.15 FRUITLAND - 0.00 Inc. 3050.00 Nd. 3050.00 Fed. 0.00 No. 4832.50 12.50 150.46 4.00 3300 PICTURED CLIFFS - 0.00 Inc. 3350.00 Ma, 3350.00 Ted, 0.00 Ve 5465.83 0.00 250.00 1.50 T.D. & End of Hold 0.00 250.00 5765.00 -85.51 -234.92 250.00 0.00 3500 19th off Point - 0.00 Inc. 3800.00 Md, 3800.00 Tvd, 0.00 Va 6.50 3900 End of Build - 12.50 Inc. 3992.31 Idd. 3990.79 Tvd. 20.89 Va Final Survey - 5868.0' M.D. 5842.18' TVD Is 1571.49' FSL & 1415.08' FWL LEMS - 12.50 Inc., 4155.39 Md, 4150.00 Tvd, 56.16 Ve 4200 LINANIOSIS 4500 End of Hold 12.00 - 12.50 lm; 4632.50 Md; 4615.60 lvd, 159.46 Vz HUGHES 10.50 4800 9.00 DLS: 1.50 deg per 100 ft 7.50 6.00 5100 4.50 3.00 CLIFF HOUSE - 3.26 Inc. 5248.17 Md. 5229.00 Ivd. 243.80 Vs MENEFEE - 2.71 Inc. 5285.22 Nd. 5282.00 Tvd. 245.73 Vs 1.50 5400 Torget - 0.00 Inc. 5465.83 Nd, 5442.54 Tvd, 250.00 Vz FORT LOOKOUT - 0.00 Inc. \$585.29 Md. 5582.00 Ted, 250.00 Ve Magnetic North is 11.46 degrees East of TRUE North 4 1/2 PRODUCTION UNER 5700 To correct azimuth from Magnetic to TRUE add 11.46 deg TOTAL DEPTH - 0.00 Inc., 5788.29 Md, 5785.00 Tvd, 250.00 Va TOTAL DEPTH 6000 - Baker Hughes INTEQ -300 300 600 1200 1500 1800 ORAWN BY: WALLY HOLBROOK DATE: NOV. 13,1956 TYO REFERENCED RIKB DENVER, COLORADO PHONE: (303) 860-0509 Vertical Section (feet) -> Azimuth 250,00 with reference 0.00 N, 0.00 E from SLO1 #2

# PHILLIPS PETROLEUM SEC.2-T29N-R6W

SAN JUAN UNIT 29-6 #15 SLOT #2 RIO ARRIBA COUNTY NEW MEXICO

### SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3771

License:

Date printed: 12-Nov-96 Date created: 5-Nov-96 Last revised: 12-Nov-96

Field is centred on n36 0 0.000,w107 0 0 Structure is centred on n36 44 38.002,w107 25 12

Slot location is n36 44 54.386,w107 24 51.727 Slot Grid coordinates are N 2091957.352, E 622746.247 Slot local coordinates are 1657.00 N 1650.00 E

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

Reference North is True North

PHILLIPS PETROLEUM
SEC.2-T29N-R6W, SAN JUAN UNIT 29-6 #15
RIO ARRIBA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref: Single Shot Survey
Last revised: 12-Nov-96

Measured Depth		Azimuth Degrees	True Vert Depth	RECTI			Dogleg Deg/100ft	Vert Sect	
0.00	0.00	0.00	0.00	0.00	N	0.00 1	0.00	0.00	
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3425.00	0.56	259.50	3425.00	0.02	S	0.12 V		0.12	
3495.00	5.13	254.00	3494.89	0.95		3.47 V		3.58	•
3558.00	10.00	266.00	3557.33	2.11		11.64 V		11.65	
3651.00	17.00	252.50	3647.73	6.76	S	32.69 W	<b>8.21</b>	33.03	
3774.00	16.00	251.50	3765.66	17.55	S	65.91 V	7 0.85	67.94	
3941.00	15.50	248.50	3926.39	33.03	S	108.50 W		113.26	
4126.00	13.00	254.50	4105.70	47.66	S	151.56 V		158.72	
4284.00	8.75	256.50	4260.82	55.21		180.39 V		188.39	
	•								
4469.00	5.25	258.50	4444.42	60.19	S	202.37 V	1.90	210.75	
4713.00	3.00	267.50	4687.77	62.69	S	219.69 W	0.96	227.88	•
4960.00	2.00	261.50	4934.53	63.61		230.41 V		238.27	•
5207.00	1.25	299.50	5181.44	62.92		237.02 W		244.24	
5456.00	1.50	291.50	5430.37	60.39		242.41 V		248.45	
0.00.00				30.02	_	2.3.12 .		2.3.43	
5857.00	2.00	263.50	5831.19	59.26	S	254.25 V	0.24	259.18	
5868.00	2.00	263.50	5842.18	59.30		254.63 V			TOTAL DEPTH

All data is in feet unless otherwise stated.

Coordinates from SLOT #2 and TVD from RKB (6438.00 Ft above mean sea level).

Bottom hole distance is 261.45 on azimuth 256.89 degrees from wellhead.

Vertical section is from wellhead on azimuth 250.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

PHILLIPS	PETROLEU	M	
SEC.2-T29N-R6W, SAN	JUAN UNI	T 29-6	#15
RIO ARRIBA CO			

SURVEY LISTING Page 2
Your ref : Single Shot Survey
Last revised : 12-Nov-96

MD	TVD	Rectangular		Comment				
5868.00	5842.18	59.30 S	254.63 W	TOTAL DEPTH				

# Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular		Kevisea
CLIFF HOUSE 29-6	· · · · · · · · · · · · · · · · · · ·	5225.00	85.51S	234.92W	16-Aug-96

CMD : OG5SECT ONGARD
INQUIRE LAND BY SECTION

07/11/97 16:47:30 OGOMES -EMDZ

PAGE NO: 2

Sec : 02 Twp : 29N Rng : 06W Section Type : NORMAL

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PF01 HELP PF02	•	F04 GoTo PF05	PF06
PF07 BKWD PF08 F	WD PF09 PRINT P	F10 SDIV PF11	PF12

CMD : OG5SECT

## ONGARD INQUIRE LAND BY SECTION

07/11/97 16:11:45 OGOMES -EMDZ

PAGE NO:

Sec: 02 Twp: 29N Rng: 06W Section Type: NORMAL

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### Mike Stogner

From:

Ernie Busch

To:

Subject:

Mike Stogner
PHILLIPS PETROLEUM CO S J 29-6 UNIT #15 (NSBHL)
Friday, November 22, 1996 11:34AM

Date:

**Priority:** 

High

SAN JUAN 29-6 UNIT #15 1571' FSL; 1415' FWL K-02-29N-06W

RECOMMEND: APPROVAL



November 18, 1996

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

ATTN: MR. WILLIAM J. LEMAY

RE:

EXCEPTION FOR UNORTHODOX LOCATION AND FIELD RULES AND ADMINISTRATIVE APPROVAL OF INTENTIONAL WELL DEVIATION SAN JUAN 29-6 UNIT #15 WELL SW/4 SECTION 2-T29N-R6W, RIO ARRIBA COUNTY, NEW MEXICO PHILLIPS' G.F.-5396, LCN 650112

### Gentlemen:

Phillips Petroleum Company ("Phillips"), as Operator of the San Juan 29-6 Unit, requests administrative approval of the unorthodox location of the above-described #15 Well due to intentional deviation of the well.

The San Juan 29-6 Unit #15 Well was originally drilled in 1955 and completed as a Blanco Mesaverde Pool well at a location of 1657' FSL and 1650' FWL.

Phillips has abandoned the existing Blanco Mesaverde interval in this well, sidetracked and completed in the Blanco Mesaverde at a bottom-hole location of 1571' FSL and 1415' FWL Section 10-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 Burlington Resources, as operator of the offsetting Blanco Mesaverde Pool wells.

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. 5396 Ernie Busch-OCD, Aztec Burlington Resources District I PO Bez 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

		W	ELL LO	CATIO	N AND	ACI	REAGE DEDI	CATION P	LAT			
<u> </u>	API Numb	жг		<sup>1</sup> Pool Coo	de	Poul Name						
30-039	-0769	2	723	319		Blanco Mesaverde						
* Property 009257	Code	San 3	Juan 2	19–6 Ur		* Property Name * Well Number #15						
'ocrid 017654	No.	Phil	lips P	etrole	•	Operator Name Elevation Company						
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UL or lot no.	Section	Township	Range	Lot Ida	Feet from t	be	North/South line	Feet from the	East/Wes	t Boc	County	
ĸ	2	29N	6W	1	1657		South	1650	West	1	io Arrib	
	<u> </u>	<u> </u>	11 Bot	tom Hol	e Locatio	n I	f Different Fro	om Surface	· — — .		<del></del>	
UL or lot no.	Section	Township	Range	Lot Ida	Feet from t	be	North/South line	Feet from the	East/West	line	County	
K	2	29N	60		1571		South	1415	West	R	io Arriba	
<sup>13</sup> Dedicated Acr	es 13 Joint	or Iaill " (	Consolidatio	n Code 15 O	order No.					-		
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Bottombole location Date of Survey												
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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 29-6 #15
WELL NAME

Rio Arriba County, New Mexico
LOCATION

JOB NUMBER 410-80535 TYPE OF SURVEY MSS

DATE November 3, 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

410-80535

**November 3, 1996** 

Company

Job#

Date

Sec-2-T29N-R6W

San Juan Unit 29-6 #15

Rio Arriba County, New Mexico

Lease

Well#

County and State

Surveyed from a depth of

3,400 feet to 3,774 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 pro- cedures 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.

John Stoddard Operations Manager

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this <u>Atl</u> day of <u>November</u>, 19<u>16</u>.

My commission expires (hugaet 4 2000

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Certification Number:

438

Certification Date:

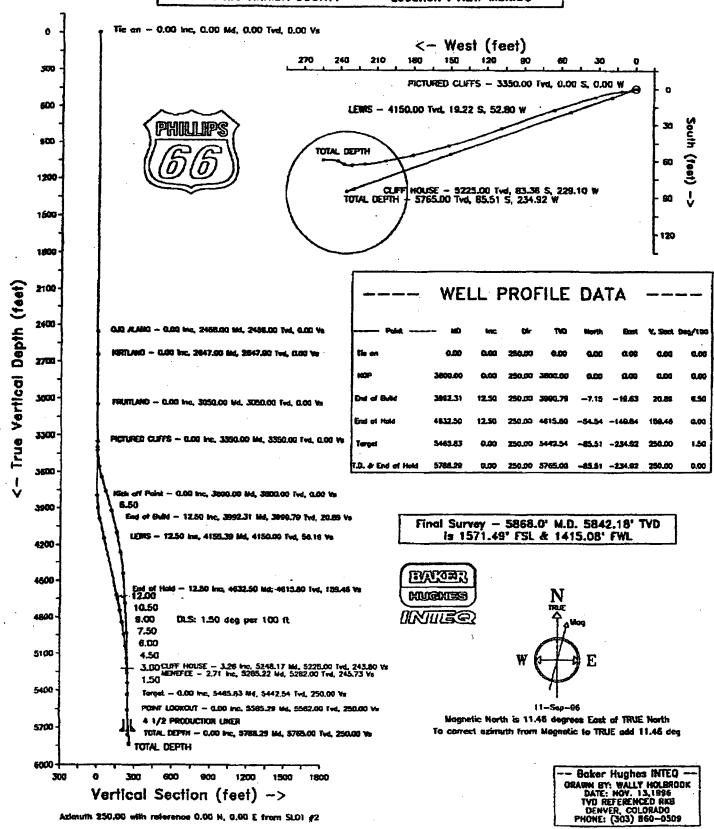
November 12, 1996

# PHILLIPS PETROLEUM

Structure : SEC.2-T29N-R6W Well : SAN JUAN UNIT 29-6 #15

Field: RIO ARRIBA COUNTY

Location: NEW MEXICO



# PHILLIPS PETROLEUM SEC.2-T29N-R6W

SAN JUAN UNIT 29-6 #15 SLOT #2 RIO ARRIBA COUNTY NEW MEXICO

### SURVEY LISTING

by Baker Hughes INTEQ

Your ref : Single Shot Survey

Our ref : svy3771

License:

Date printed: 12-Nov-96 Date created: 5-Nov-96 Last revised: 12-Nov-96

Field is centred on n36 0 0.000,w107 0 0 Structure is centred on n36 44 38.002,w107 25 12

Slot location is n36 44 54.386,w107 24 51.727 Slot Grid coordinates are N 2091957.352, E 622746.247 Slot local coordinates are 1657.00 N 1650.00 E

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

Reference North is True North

### PHILLIPS PETROLEUM SEC.2-T29N-R6W, SAN JUAN UNIT 29-6 #15 RIO ARRIBA COUNTY, NEW MEXICO

SURVEY LISTING Page 1 Your ref : Single Shot Survey Last revised : 12-Nov-96

Measured Depth		Azimuth Degrees	True Vert Depth	RECT						Dogleg Deg/100ft	Vert Sect	
0.00	0.00	0.00	0.00	0.0			(	0.00	E	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.0		_		0.00		0.00	0.00	
3425.00	0.56	259.50	3425.00	0.0				0.12		2.24	0.12	•
3495.00	5.13	254.00	3494.89		5 S			3.47		6.53	3.58	
3558.00	10.00	266.00	3557.33	2.1	1 S		1:	1.64	W	8.09	11.65	
3651.00	17.00	252.50	3647.73	6.7	6 S		3:	2.69	W	8.21	33.03	
3774.00	16.00	251.50	3765.66	17.5	5 S			5.91		0.85	67.94	•
3941.00	15.50	248.50	3926.39	33.0	3 S			3.50		0.57	113.26	
4126.00	13.00	254.50	4105.70	47.6				1.56		1.57	158.72	
4284.00	8.75	256.50	4260.82	55.2				0.39		2.70	188.39	
4469.00	5.25	258.50	4444.42	60.1	9 S		202	2.37	W	1.90	210.75	
4713.00	3.00	267.50	4687.77	62.6	9 S			9.69		0.96	227.88	•
4960.00	2.00	261.50	4934.53	63.6	1 S			0.41		0.42	238.27	•
5207.00	1.25	299.50	5181.44	62.9				7.02		0.52	244.24	
5456.00	1.50	291.50	5430.37	60.3				2.41		0.13	248.45	
5857.00	2.00	263.50	5831.19	59.2	6 S		25	4.25	W	0.24	259.18	
5868.00	2.00	263.50	5842.18	59.3				4.63		0.00		TOTAL DEPTH

All data is in feet unless otherwise stated. Coordinates from SLOT #2 and TVD from RKB (6438.00 Ft above mean sea level).

Bottom hole distance is 261.45 on azimuth 256.89 degrees from wellhead.

Vertical section is from wellhead on azimuth 250.00 degrees. Calculation uses the minimum curvature method. Presented by Baker Hughes INTEQ

# PHILLIPS PETROLEUM SEC.2-T29N-R6W, SAN JUAN UNIT 29-6 #15 RIO ARRIBA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Single Shot Survey
Last revised : 12-Nov-96

MD	TVD	Rectangular		Comment	
5868.00	5842.18	59.30 S	254.63 W	TOTAL DEPTH	

# Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular		Revised
CLIFF HOUSE 29-6 #15	t-	5225.00	85.51S	234.92W	16-Aug-96