



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 19, 1997

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

Administrative Order DD-174

Dear Mr. Noah:

Reference is made to Phillips Petroleum Company's ("Phillips") application dated June 2, 1997 for authorization to recomplete the existing San Juan "31-6" Unit Well No. 213 (API No. 30-039-24531) by side tracking off of the vertical portion of the wellbore and directionally drill to a pre-determined bottom-hole location in order to further develop the Basin-Fruitland Coal (Gas) Pool underlying its existing 317.49-acre standard gas spacing and proration unit comprising Lots 7 and 8, the S/2 NW/4, and the SW/4 (W/2 equivalent) of Section 5, Township 30 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 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 Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (2) The San Juan "31-6" Unit Well No. 213, located at a standard coal gas well location 1865 feet from the South line and 1595 feet from the West line (Unit K) of said Section 5, was originally drilled to and completed in the Basin-Fruitland Coal (Gas) Pool in 1989 and was assigned the above-described 317.49-acre unit;
- (3) By Division Order No. R-8768, as amended, the Division promulgated "*Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool*", which includes provisions for 320-acre gas spacing and proration units and wells to be located within either the NE/4 or SW/4 of the section and not closer than 790 feet from any outer boundary of the spacing unit nor closer than 130 feet from any quarter section line nor closer than 10 feet from any quarter-quarter section line or subdivision inner boundary. Further, since the Basin-Fruitland Coal (Gas) Pool

is a "non-prorated" gas pool, Division General Rule 104.D(3) applies, which limits gas spacing units to only one producing well therein;

- (4) It is our understanding that Phillips intends to kick-off from vertical at a depth of approximately 650 feet by milling a window in the 9-5/8 inch casing, drill directionally in a southerly direction in order to bottom back into the Basin Fruitland Coal (Gas) Pool at a standard sub-surface coal gas well location in the SE/4 SW/4 (Unit N) of said Section 5;
- (5) The applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 SW/4 of said Section 5 that is no closer than 790 feet to the quarter section line to the east, nor closer than 790 feet from the South line of said Section 5, nor closer than 10 from either quarter-quarter section line to the north and west; and,
- (6) 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 and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) The operator, Phillips Petroleum Company, is hereby authorized to recomplete its existing San Juan "31-6" Unit Well No. 213 (API No. 30-039-24531), located at a standard coal gas well location 1865 feet from the South line and 1595 feet from the West line (Unit K) of Section 5, Township 30 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, by milling a window in the 9-5/8 inch casing and kicking-off from vertical at a depth of approximately 650 feet, drill directionally in a southerly direction in order to bottom back into the Basin Fruitland Coal (Gas) Pool at a standard sub-surface coal gas well location in the SE/4 SW/4 (Unit N) of said Section 5.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) The existing 317.49-acre gas spacing and proration unit comprising Lots 7 and 8, the S/2 NW/4, and the SW/4 (W/2 equivalent) of said Section 5 shall be dedicated to said well.

(4) The "producing area" for said wellbore shall include that area within the SE/4 SW/4 (Unit N) of said Section 5 that is no closer than 790 feet to the quarter section line to the east, nor closer than 790 feet from the South line of said Section 5, nor closer than 10 from either quarter-quarter section line to the north and west; and,

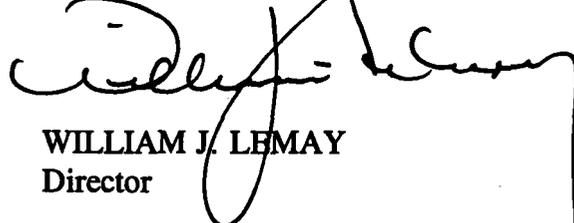
(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Order No. R-8768, as amended.

(6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(7) 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, Phil

Rec: 6-3-97

Susp: 6-23-97

Released: 6-19-97

W/Walters

June 19, 1997

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

Attention: Patrick H. Noah

Administrative Order DD-*****

(174)

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approximately 650 feet by milling a window in the 9-5/8 inch casing, drill directionally in a southerly direction in order to bottom back into the Basin Fruitland Coal (Gas) Pool at a standard sub-surface coal gas well location in the SE/4 SW/4 (Unit N) of said Section 5;

- (5) The applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 SW/4 of said Section 5 that is no closer than 790 feet to the quarter section line to the east, nor closer than 790 feet from the South line of said Section 5, nor closer than 10 from either quarter-quarter section line to the north and west; and,
- (6) 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 and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) The operator, Phillips Petroleum Company, is hereby authorized to recomplete its existing San Juan "31-6" Unit Well No. 213 (API No. 30-039-24531), located at a standard coal gas well location 1865 feet from the South line and 1595 feet from the West line (Unit K) of Section 5, Township 30 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, by milling a window in the 9-5/8 inch casing and kicking-off from vertical at a depth of approximately 650 feet, drill directionally in a southerly direction in order to bottom back into the Basin Fruitland Coal (Gas) Pool at a standard sub-surface coal gas well location in the SE/4 SW/4 (Unit N) of said Section 5.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) The existing 317.49-acre gas spacing and proration unit comprising Lots 7 and 8, the S/2 NW/4, and the SW/4 (W/2 equivalent) of said Section 5 shall be dedicated to said well.

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SW/4 (Unit N) of said Section 5 that is no closer than 790 feet to the quarter section line to the east, nor closer than 790 feet from the South line of said Section 5, nor closer than 10 from either quarter-quarter section line to the north and west; and,

(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Order No. R-8768, as amended.

(6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(7) 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

S E A L

WJL/MES/kv

cc: Oil Conservation Division - Aztec
New Mexico State Land Office - Santa Fe

DD 6/23/97

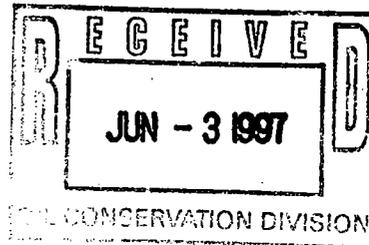


PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

June 2, 1997

State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505



ATTN: MR. WILLIAM J. LEMAY

**RE: REQUEST FOR ADMINISTRATIVE APPROVAL OF DIRECTIONAL WELLBORE
SAN JUAN 31-6 UNIT #213
SW/4 SECTION 5-T30N-R5W,
RIO ARRIBA COUNTY, NEW MEXICO
PHILLIPS' LCN 650363, G. F. 5397**

Gentlemen:

Phillips Petroleum Company ("Phillips"), as operator of the San Juan 31-6 Unit, requests administrative approval of a directional wellbore project for the San Juan 31-6 Unit #213 well.

The San Juan 31-6 #213 well was originally drilled and completed as a Fruitland Coal producing well in 1989. Mud was used during the drilling and coring of the well. The well never produced at the rate of offset wells. Wellbore and formation damage were suspected due to the coring operations and utilization of mud. In 1993 the well was sidetracked in an attempt to get away from the wellbore damage. Unfortunately the sidetrack did not get far enough away from the original wellbore and again the well never produced at comparable rates to offset producers.

It is proposed to abandon the existing wellbore to a depth of approximately 700', set a whipstock, cut a window in the 9-5/8" casing and directionally drill to a new bottom hole location approximately 1045' south southeast of the current surface location. The new proposed bottom hole location of 840' FSL and 1800' FWL of Section 5-T30N-R6W is within the existing approved drilling area.

Directionally drilling the well from the present location will minimize new surface disturbances that would result from building a new surface location, roads and water and gas gathering lines that would be required if the well were vertically drilled to the same bottom hole location.

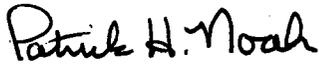
Enclosed are the following:

- 1) A nine-section plat which shows the surface location of the #213 well, all offsetting Fruitland wells and the names of offsetting operators
- 2) A vertically oriented and horizontal plan view of the well
- 3) A type log section which identifies the top and bottom of the Fruitland; and
- 4) A list of the names and addresses of all offset operators.

Request for Administrative Approval of Directional Wellbore
San Juan 31-6 Unit #213
June 2, 1997
Page 2

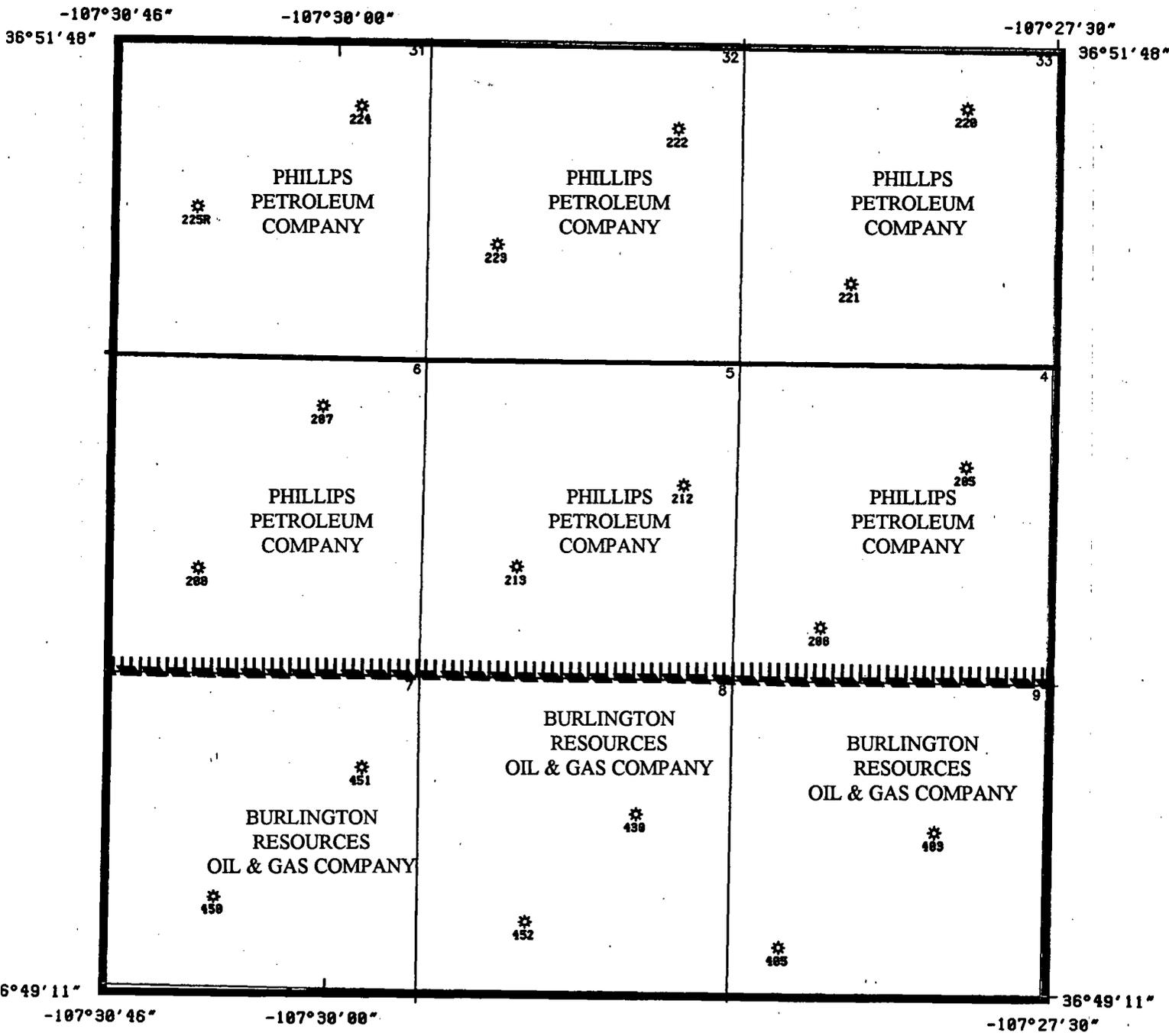
A copy of this application has been sent by certified mail to all offsetting operators. By copy of this letter all offsetting operators are advised that any objection to this application must be filed in writing with the NMOCD within twenty days of the date that notice is sent.

Very truly yours,



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

cc: J. L. Mathis (r)G. F. 5397
Ernie Busch - OCD, Aztec
Burlington Resources Oil & Gas Company



SAN JUAN 31-6 UNIT NO. 213 WELL LOCATED 1595' FWL AND 1865' FSL SECTION 5-T30N-R6W



SAN JUAN 31-6 UNIT BOUNDARY



SAN JUAN 30-6 UNIT BOUNDARY

	Phillips Petroleum Company	
AREA <u>SAN JUAN 31-6 UNIT NO. 213 ST</u> <u>NINE SECTION PLAT OF OFFSETS</u>		
COUNTY <u>RIO ARriba</u>	STATE <u>NEW MEXICO</u>	JOB <u>S7410PHN USR00078</u>
SCALE <u>1" = 2474 FEET</u>	 SCALE (FEET)	

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

Northwest Pipeline Corporation
 Registered 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

JUN 29 1989

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

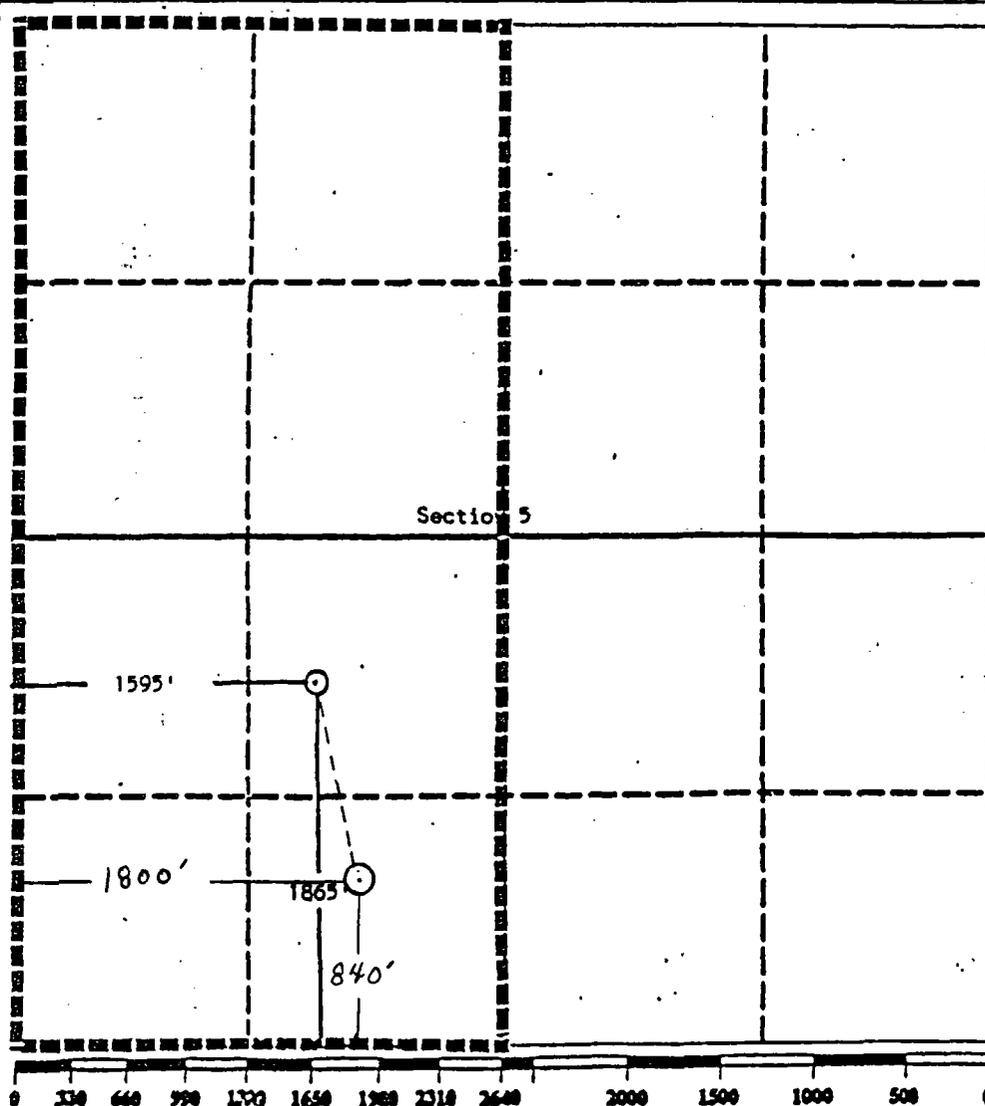
DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

PRODUCTION AND DRILLING

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Northwest Pipeline Corporation		Lease San Juan 31-6		Well No. 213
Unit Letter K	Section 5	Township 30 North	Range 6 West	County Rio Arriba
Actual Footage Location of Well: 1865 feet from the South line and 1595 feet from the West line				
Ground level Elev. 6302	Producing Formation Fruitland	Pool Basin Fruitland Pool	Dedicated Acreage: 319.49 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hectare marks on the plat below.</p> <p>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).</p> <p>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.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation <u>Unitization</u></p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>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.</p>				



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

Signature: *Jeff Vaughan*

Printed Name: Jeff Vaughan

Position: Engineer

Company: Northwest Pipeline Corp.

Date: July 10, 1989

SURVEYOR CERTIFICATION
 I hereby certify that the well location shown on this plat was placed 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: _____

Signature & Professional Seal: *Edgar L. Riser*

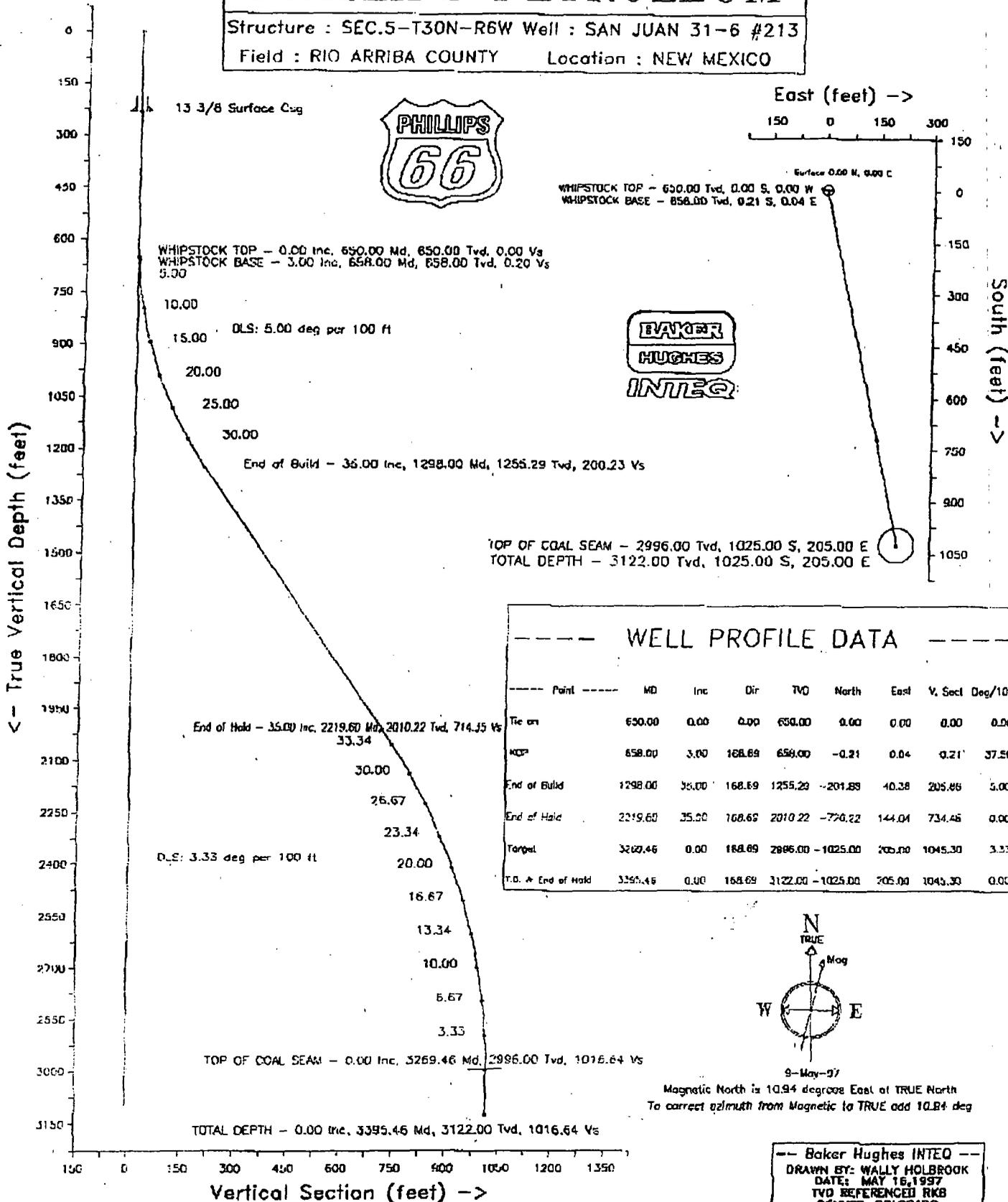
Professional Seal: NEW MEXICO 5979

Edgar L. Riser, L.S.

PHILLIPS PETROLEUM

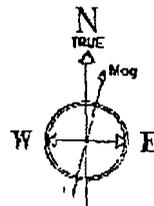
Structure : SEC.5-T30N-R6W Well : SAN JUAN 31-6 #213

Field : RIO ARRIBA COUNTY Location : NEW MEXICO



WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00
MDP	658.00	3.00	168.69	658.00	-0.21	0.04	0.21	37.50
End of Build	1298.00	36.00	168.69	1255.29	-201.89	-40.38	205.86	5.00
End of Hold	2219.60	35.00	168.69	2010.22	-770.22	144.04	734.46	0.00
Target	3269.46	0.00	168.69	2996.00	-1025.00	205.00	1045.30	3.33
T.D. + End of Hold	3395.46	0.00	168.69	3122.00	-1025.00	205.00	1045.30	0.00



9-May-97
Magnetic North is 10.94 degrees East of TRUE North
To correct azimuth from Magnetic to TRUE add 10.94 deg

Baker Hughes INTEQ
DRAWN BY: WALLY HOLBROOK
DATE: MAY 16, 1997
TVD REFERENCED RKB
DENVER, COLORADO
PHONE: (303) 534-3223

Azimuth 182.14 with reference 0.00 N, 0.00 E from SLOT #1

PHILLIPS PETROLEUM
SEC.5-T30N-R6W

SAN JUAN 31-6 #213
SLOT #1
RIO ARriba COUNTY
NEW MEXICO

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : INITIAL PLAN REENTRY
Our ref : prop2836
License :

Date printed : 16-May-97
Date created : 8-May-97
Last revised : 16-May-97

Field is centred on n36 33 0.000,w107 40 0
Structure is centred on n36 52 0.000,w106 20 0

Slot location is n36 52 18.440,w106 19 40.371
slot Grid coordinates are N 2136567.330, E 477219.847
Slot local coordinates are 1865.00 N 1595.00 E

Projection type: mercator - New Mexico Central (3002), Spheroid: Clarke - 1866

Reference North is True North

05/16/97

13:46

0303 534 0878

BHI-DENVER

0303/005

PHILLIPS PETROLEUM
 SEC.5-T30N-R6W,SAN JUAN 31-6 #213
 RIO ARRIBA COUNTY,NEW MEXICO

PROPOSAL LISTING Page 1
 Your ref : INITIAL PLAN REENTRY
 Last revised : 16-May-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
650.00	0.00	0.00	650.00	0.00	N	0.00	0.00	WHIPSTOCK TOP
658.00	3.00	168.69	658.00	0.21	S	0.04	0.21	WHIPSTOCK BASE
698.00	5.00	168.69	697.90	2.94	S	0.59	3.00	
798.00	10.00	168.69	797.01	15.74	S	3.15	16.05	
898.00	15.00	168.69	894.61	36.95	S	7.39	37.69	
998.00	20.00	168.69	989.95	66.43	S	13.29	67.75	
1098.00	25.00	168.69	1082.31	103.94	S	20.79	106.00	
1198.00	30.00	168.69	1170.98	149.21	S	29.84	152.16	
1298.00	35.00	168.69	1255.29	201.88	S	40.38	205.88	
1500.00	35.00	168.69	1420.76	315.49	S	63.10	321.74	
2000.00	35.00	168.69	1830.34	596.71	S	119.34	608.53	
2219.60	35.00	168.69	2010.22	720.22	S	144.04	734.48	
2269.46	33.34	168.69	2051.48	747.68	S	149.54	762.49	
2369.46	30.00	168.69	2136.57	799.16	S	159.83	814.98	
2469.46	26.67	168.69	2224.58	845.69	S	169.14	862.44	
2569.46	23.34	168.69	2315.19	887.13	S	177.43	904.70	
2669.46	20.00	168.69	2408.11	923.34	S	184.67	941.62	
2769.46	16.67	168.69	2503.02	954.18	S	190.84	973.08	
2869.46	13.34	168.69	2599.60	979.56	S	195.91	998.96	
2969.46	10.00	168.69	2697.52	999.39	S	199.88	1019.18	
3069.46	6.67	168.69	2796.45	1013.60	S	202.72	1033.67	
3169.46	3.33	168.69	2896.06	1022.15	S	204.43	1042.39	
3269.46	0.00	168.69	2996.00	1025.00	S	205.00	1045.30	TOP OF COAL SEAM
3395.46	0.00	168.69	3122.00	1025.00	S	205.00	1045.30	TOTAL DEPTH

All data is in feet unless otherwise stated.
 Coordinates from SLOT #1 and TVD from wellhead.
 Bottom hole distance is 1045.30 on azimuth 168.69 degrees from wellhead.
 Vertical section is from wellhead on azimuth 168.69 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

05/16/97 13:46

3303 534 0878

BHI-DENVER

004/005

PHILLIPS PETROLEUM
 SEC.5-T30N-R6W, SAN JUAN 31-6 #213
 RIO ARRIBA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 2
 Your ref : INITIAL PLAN REENTRY
 Last revised : 16-May-97

05/16/97 13:48
 3303 534 0878

Comments in wellpath				
MD	TVD	Rectangular Coords.		Comment
650.00	650.00	0.00 N	0.00 E	WHIPSTOCK TOP
658.00	658.00	0.21 S	0.04 E	WHIPSTOCK BASE
3269.46	2996.00	1025.00 S	205.00 E	TOP OF COAL SEAM
3395.46	3122.00	1025.00 S	205.00 E	TOTAL DEPTH

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
SJ 31-6 213		2996.00	1025.00S 205.00E	8-May-97

BHI-DENVER

005/005

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

NORTHWEST PIPELINE CORPORATION

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

JUN 29 1989

PRODUCTION AND DRILLING

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

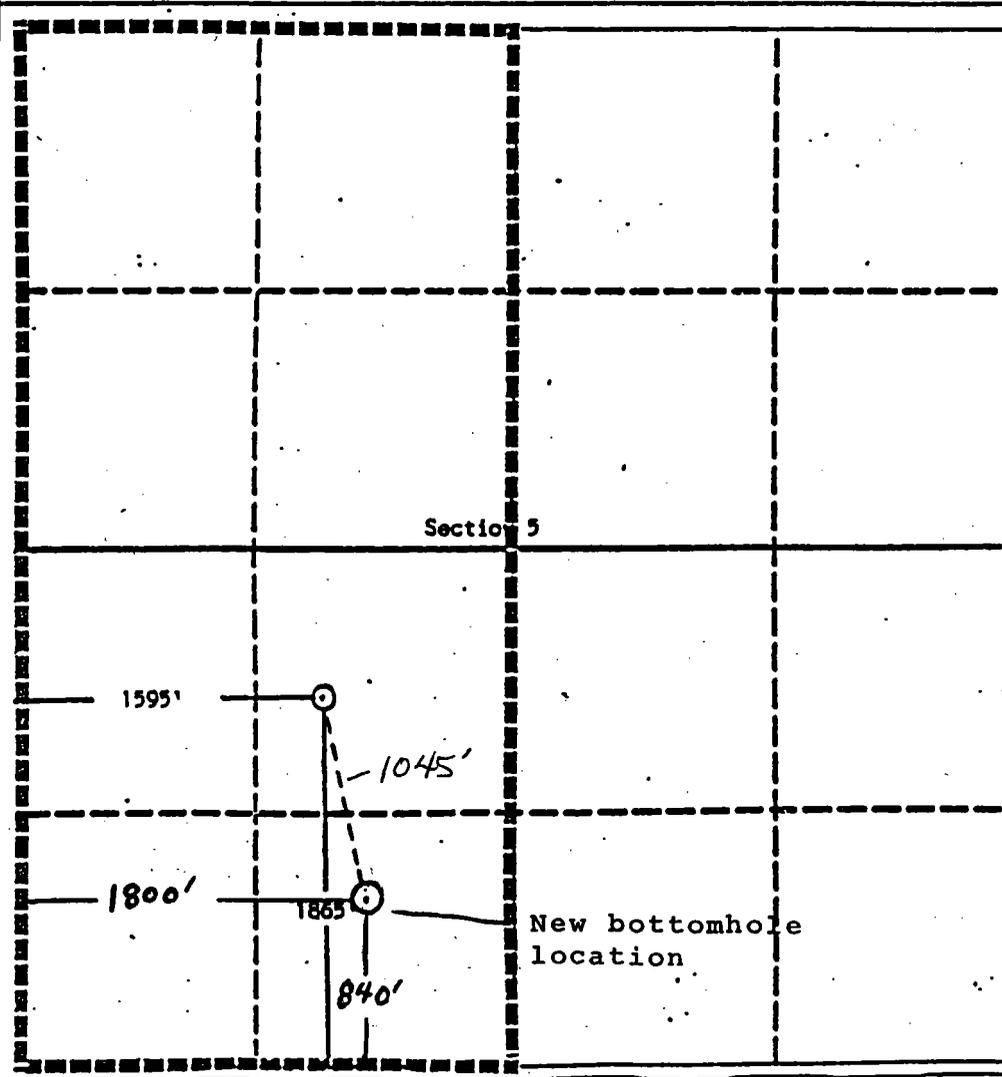
DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

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 Northwest Pipeline Corporation		Lease San Juan 31-6		Well No. 213
Unit Letter K	Section 5	Township 30 North	Range 6 West	County NMPM Rio Arriba
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OPERATOR CERTIFICATION

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

Signature: *Jeff Vaughan*

Printed Name: Jeff Vaughan

Position: Engineer

Company: Northwest Pipeline Corp.

Date: July 10, 1989

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: _____

Signature & Seal: *Edgar L. Risner*

Professional Seal: **NEW MEXICO** 5979

Edgar L. Risner, L.S.



HIGH RESOLUTION SPECTRAL DENSITY LOG

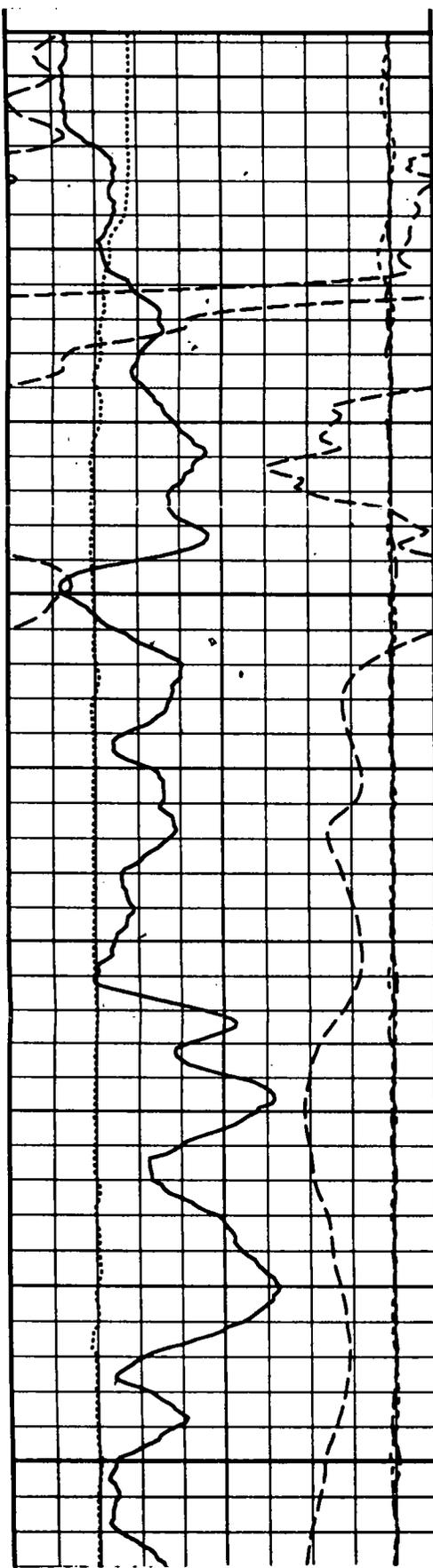
COMPANY WELL FIELD COUNTY	COMPANY NORTHWEST PIPELINE CORPORATION			
	WELL SAN JUAN 31-6 NO 213			
	FIELD BASIN FRUITLAND COAL			
	COUNTY SAN JUAN		STATE NM	
API NO. LOCATION 1865 FSL AND 1595 FWL		OTHER SERVICES SDL-DSN FW MICRO DIGL CAST		
SEC. 5		TWP 30N	RGE 6W	
PERMANENT DATUM GL		ELEV. 6302		ELEV.: K.B. 6318
LOG MEASURED FROM KB		16 FT. ABOVE PERM. DATUM		D.F. 6317
DRILLING MEASURED FROM KB				G.L. 6302
DATE	11/29/89			
RUN NO.	ONE			
DEPTH-DRILLER	3190			
DEPTH-LOGGER	3192			
BTM. LOG INTER.	3190			
TOP LOG INTER.	2982			
CASING-DRILLER	9 5/8 2982			
CASING-LOGGER	2982			
BIT SIZE	7.875			
TYPE FLUID IN HOLE	FRESH GEL			
DENS. : VISC	10.5 : 47			
PH : FLUID LOSS	9.5 : 17.6			
SOURCE OF SAMPLE	FLOWLINE			
RM • MEAS. TEMP.	3.1 • 38			
RMF • MEAS. TEMP.	2.7 • 38			
RMC • MEAS. TEMP.	3.7 • 38			
SOURCE RMF : RMC	MEAS : MEAS			
RM • BHT	1.0 • 115			
TIME SINCE CIRC.	7 HRS.			
TIME ON BOTTOM	13:00 HRS.			
MAX. REC. TEMP.	115 • TD			
EQUIP. : LOCATION	4557 : FARM			
RECORDED BY	J. KOPFMAN			
WITNESSED BY	R. HAWKS			

FILE COPY

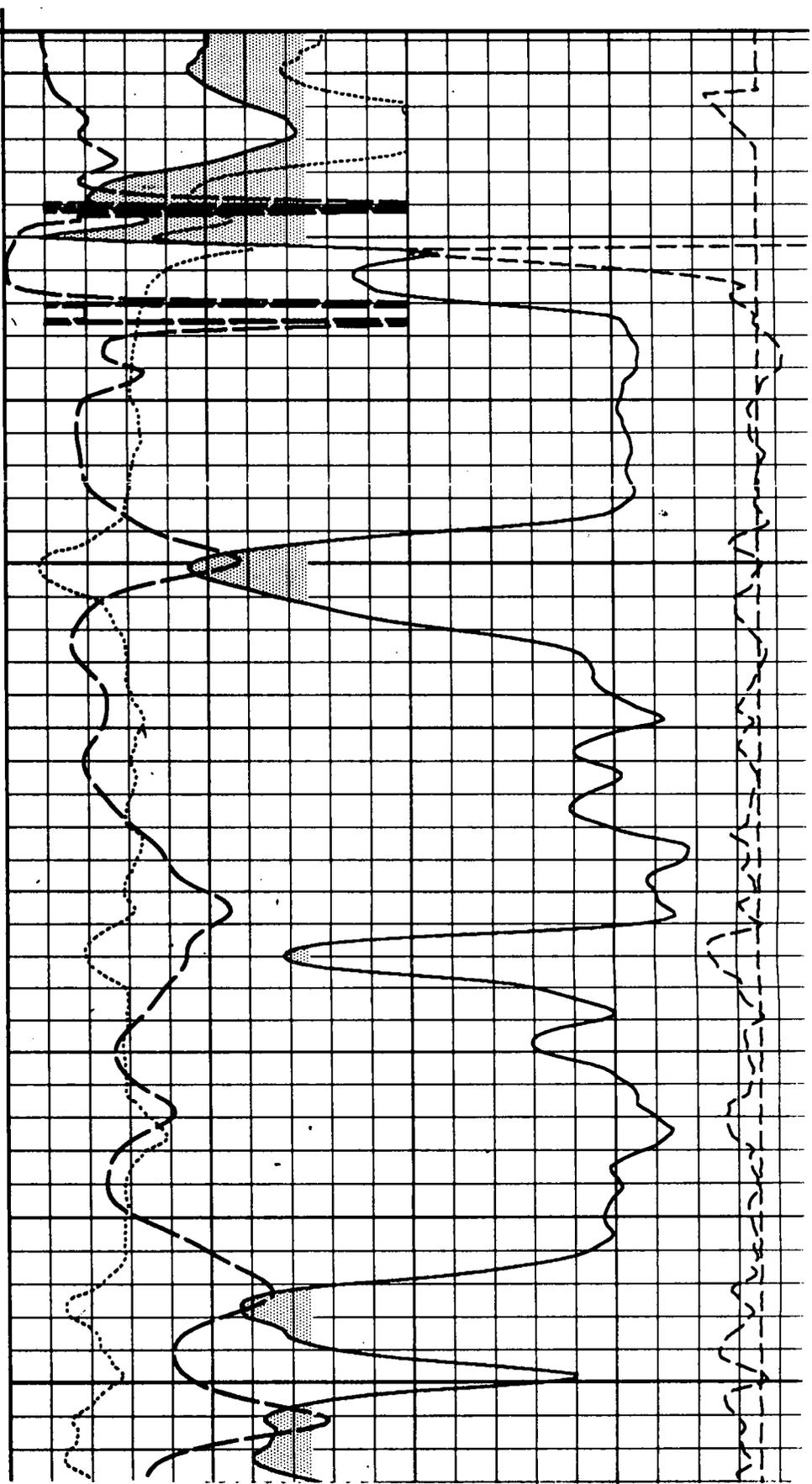
CALIPER		
6	IN	16
GAMMA RAY		
0	GAPI	200
Q LONG		
4.5	QUALITY	-0.5
QUALITY SHRT		
-4.5	QUALITY	0.5
SP		
0	MV	100

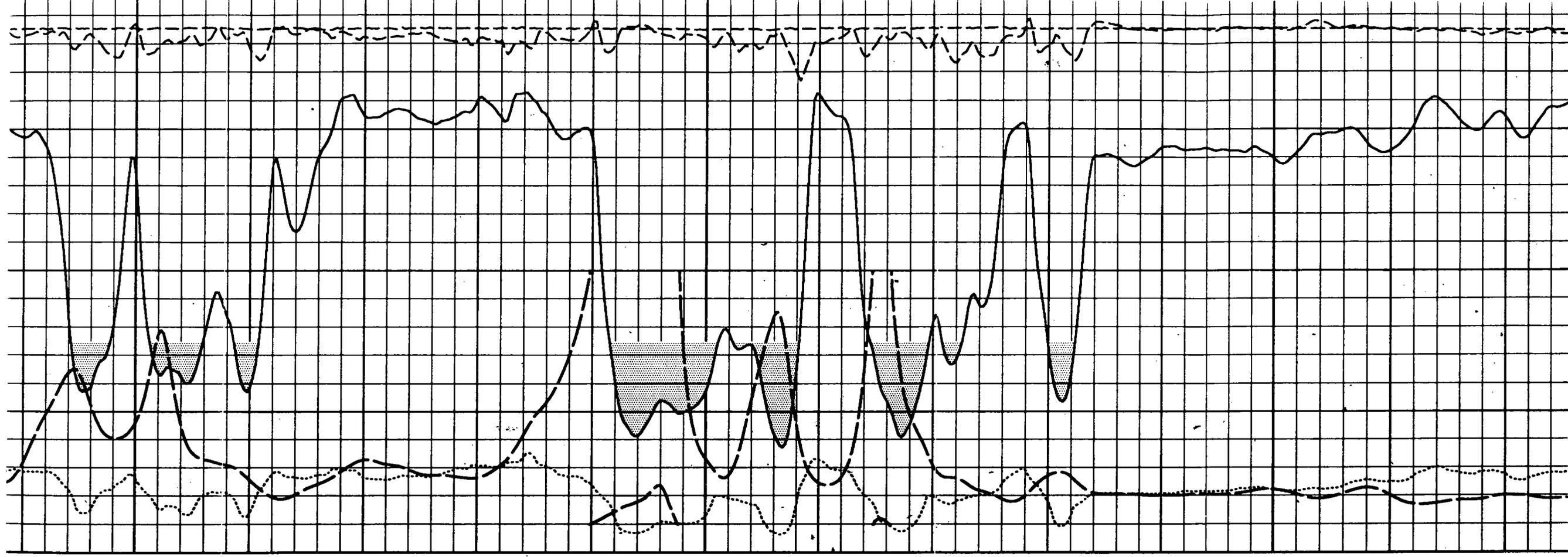
BULK DENSITY					
1	GM/CC				3
DEEP			DEN CORR		
0	OHM-M	100	-0.4	GM/CC	0.1
PE			TENSION		
0	B/E	10	10000	POUNDS	0

San Juan 31-6 #213



Top Coal
2998'
3000.





3100

Base,
3122



San Juan 31-6 Unit #213

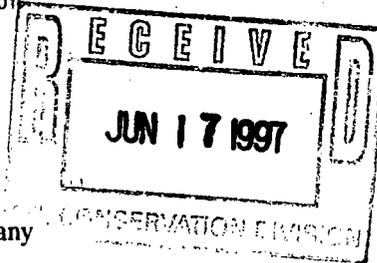
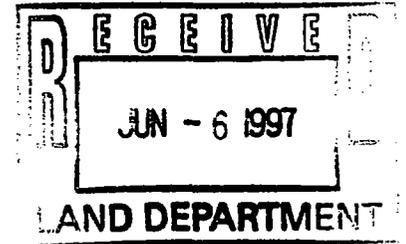
List of Offset Operators

- 1) Burlington Resources Oil & Gas Company
P. O. Box 4289
Farmington, NM 87499-4289



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004



June 2, 1997

Burlington Resources Oil & Gas Company
P. O. Box 4289
Farmington, NM 87499-4289

ATTN: PEGGY BRADFIELD
REGULATORY/COMPLIANCE ADMINISTRATOR

RE: **REQUEST FOR ADMINISTRATIVE APPROVAL OF DIRECTIONAL WELLBORE
SAN JUAN 31-6 UNIT #213
SW/4 SECTION 5-T30N-R6W,
RIO ARRIBA COUNTY, NEW MEXICO
PHILLIPS' G. F. 5397, LCN 650363**

Dear Ms. Bradfield:

Enclosed is a copy of Phillips' application for administrative approval of a directional wellbore project for the #213 well.

In order to expedite our work, Phillips asks you to consider waiving any objection to this proposal. If a waiver is acceptable, please return one executed copy of this letter to my attention and to the attention of the NMOCD in Santa Fe. Stamped and addressed envelopes are provided for your convenience.

Feel free to contact me if you have any questions.

Very truly yours,

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

cc: J. L. Mathis (r)G. F. 5397

The undersigned operator waives objection to the application of Phillips Petroleum Company for a directional well project for the San Juan 31-6 Unit #213 well.

Owner Name: Burlington Resources Oil & Gas Company

By: Gina Donohue

Title: Senior Staff Landman

Date: June 12, 1997

Sec : 05 Twp : 30N Rng : 06W Section Type : NORMAL

8 39.72 Federal owned U	7 39.77 Federal owned U	6 39.81 Federal owned U	5 39.86 Federal owned U
E 40.00 Federal owned U	F 40.00 Federal owned U	G 40.00 Federal owned U A	H 40.00 Federal owned U A A

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

79.72

79.77
79.72

159.49
24
398.49

159.49

16
319.49

Sec : 05 Twp : 30N Rng : 06W Section Type : NORMAL

L 40.00 Federal owned U	K 40.00 Federal owned U A A	J 40.00 Federal owned U	I 40.00 Federal owned U
M 40.00 Federal owned U A	N 40.00 Federal owned U	O 40.00 Federal owned U	P 40.00 Federal owned U

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

June 2, 1997

State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

ATTN: MR. WILLIAM J. LEMAY

**RE: REQUEST FOR ADMINISTRATIVE APPROVAL OF DIRECTIONAL WELLBORE
SAN JUAN 31-6 UNIT #213
SW/4 SECTION 5-T30N-R5W,
RIO ARriba COUNTY, NEW MEXICO
PHILLIPS' LCN 650363, G. F. 5397**

Gentlemen:

Phillips Petroleum Company ("Phillips"), as operator of the San Juan 31-6 Unit, requests administrative approval of a directional wellbore project for the San Juan 31-6 Unit #213 well.

The San Juan 31-6 #213 well was originally drilled and completed as a Fruitland Coal producing well in 1989. Mud was used during the drilling and coring of the well. The well never produced at the rate of offset wells. Wellbore and formation damage were suspected due to the coring operations and utilization of mud. In 1993 the well was sidetracked in an attempt to get away from the wellbore damage. Unfortunately the sidetrack did not get far enough away from the original wellbore and again the well never produced at comparable rates to offset producers.

It is proposed to abandon the existing wellbore to a depth of approximately 700', set a whipstock, cut a window in the 9-5/8" casing and directionally drill to a new bottom hole location approximately 1045' south southeast of the current surface location. The new proposed bottom hole location of 840' FSL and 1800' FWL of Section 5-T30N-R6W is within the existing approved drilling area.

Directionally drilling the well from the present location will minimize new surface disturbances that would result from building a new surface location, roads and water and gas gathering lines that would be required if the well were vertically drilled to the same bottom hole location.

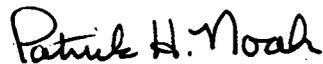
Enclosed are the following:

- 1) A nine-section plat which shows the surface location of the #213 well, all offsetting Fruitland wells and the names of offsetting operators
- 2) A vertically oriented and horizontal plan view of the well
- 3) A type log section which identifies the top and bottom of the Fruitland; and
- 4) A list of the names and addresses of all offset operators.

Request for Administrative Approval of Directional Wellbore
San Juan 31-6 Unit #213
June 2, 1997
Page 2

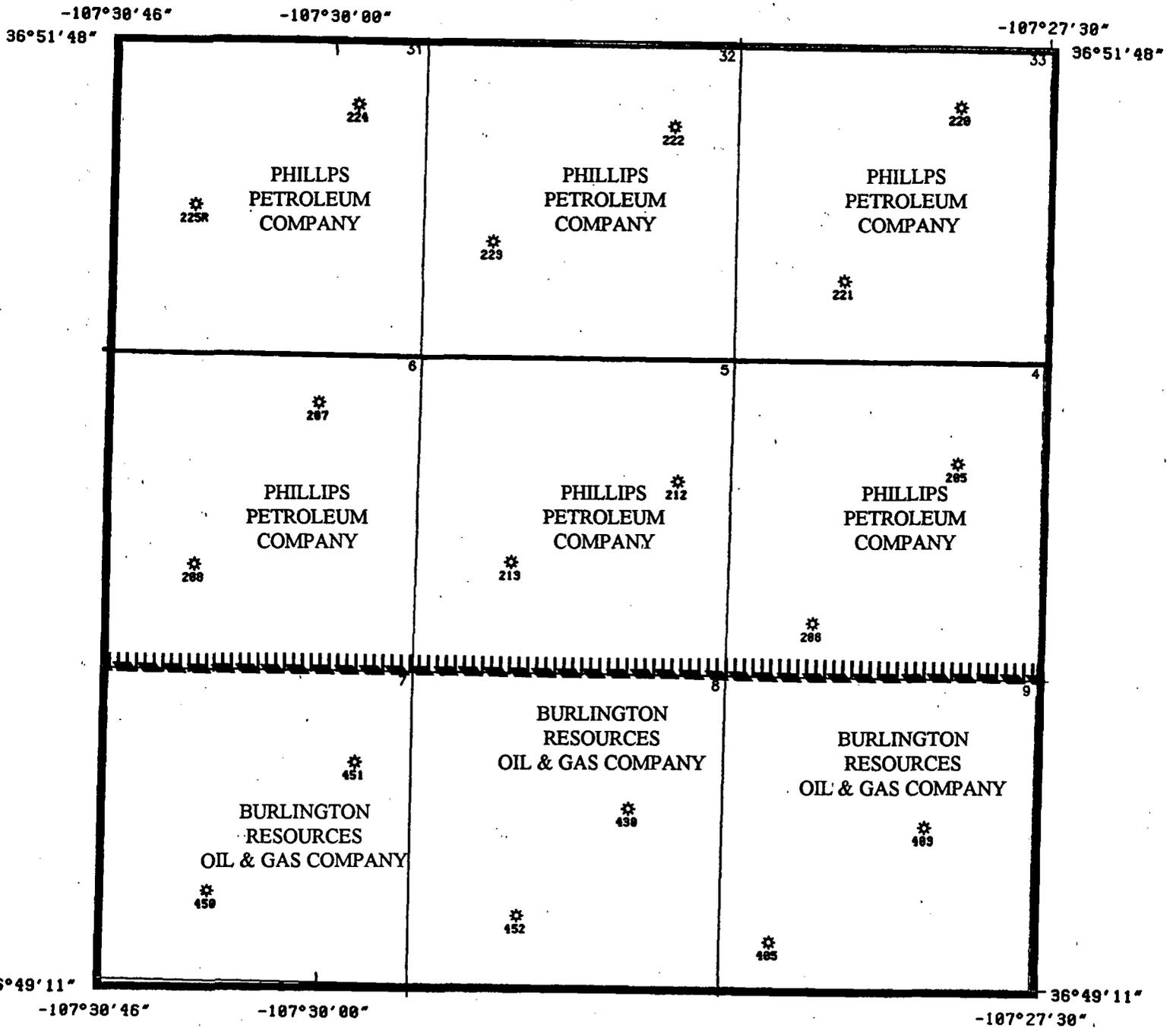
A copy of this application has been sent by certified mail to all offsetting operators. By copy of this letter all offsetting operators are advised that any objection to this application must be filed in writing with the NMOCD within twenty days of the date that notice is sent.

Very truly yours,



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

cc: J. L. Mathis (r)G. F. 5397
Ernie Busch - OCD, Aztec
Burlington Resources Oil & Gas Company



SAN JUAN 31-6 UNIT NO. 213 WELL LOCATED 1595' FWL AND 1865' FSL SECTION 5-T30N-R6W



SAN JUAN 31-6 UNIT BOUNDARY



SAN JUAN 30-6 UNIT BOUNDARY

	Phillips Petroleum Company	
AREA <u>SAN JUAN 31-6 UNIT NO. 213 ST</u>		
<u>NINE SECTION PLAT OF OFFSETS</u>		
COUNTY <u>RIO ARRIBA</u>	STATE <u>NEW MEXICO</u>	JOB <u>S7410PHN USR00079</u>
SCALE <u>1" = 2474 FEET</u>		

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

RTHWEST PIPELINE CORPORATION
 Registered 1-1-88

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

JUN 29 1989

PRODUCTION AND DRILLING

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Aramis, NM 88210

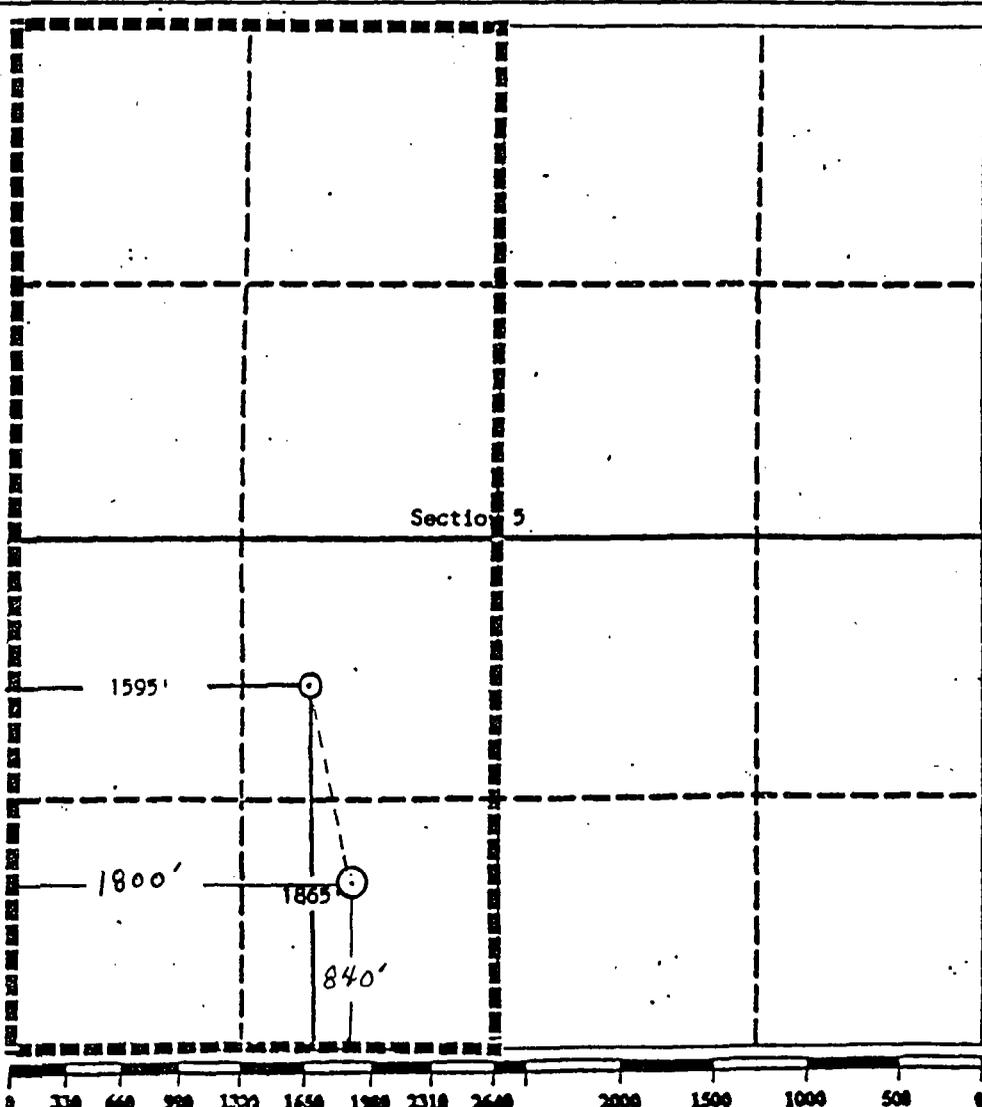
DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Northwest Pipeline Corporation		Lease San Juan 31-6		Well No. 213
Unit Letter K	Section 5	Township 30 North	Range 6 West	County NMPM Rio Arriba
Actual Footage Location of Well: 1865 feet from the South line and 1595 feet from the West line				
Ground level Elev. 6302	Producing Formation Fruitland	Pool Basin Fruitland Pool		Dedicated Acreage: 319.49 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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: *Jeff Vaughan*
 Printed Name: Jeff Vaughan
 Position: Engineer
 Company: Northwest Pipeline Corp.
 Date: July 10, 1989

SURVEYOR CERTIFICATION

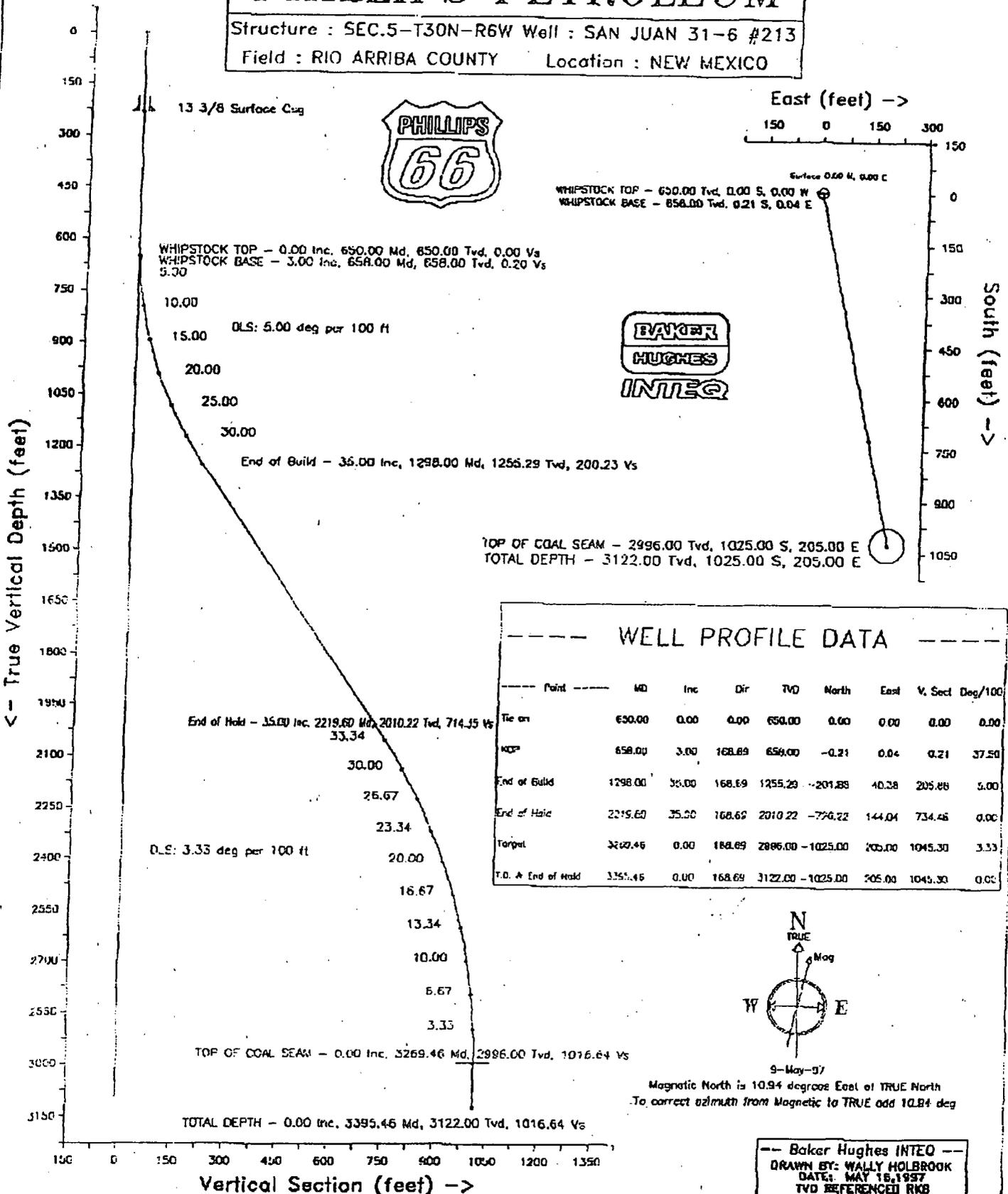
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: _____
 Signature of Professional Surveyor: *Edgar L. Risner*
 Professional Surveyor License No. 5979
 Edger L. Risner, L.S.



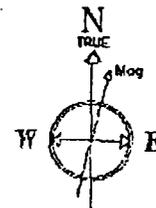
PHILLIPS PETROLEUM

Structure : SEC.5-T30N-R6W Well : SAN JUAN 31-6 #213
 Field : RIO ARRIBA COUNTY Location : NEW MEXICO



TOP OF COAL SEAM - 2986.00 Tvd, 1025.00 S, 205.00 E
 TOTAL DEPTH - 3122.00 Tvd, 1025.00 S, 205.00 E

WELL PROFILE DATA							
Point	MD	Inc	Dir	TVD	North	East	V. Sect Deg/100
Tie on	650.00	0.00	0.00	650.00	0.00	0.00	0.00
MDP	658.00	3.00	168.69	658.00	-0.21	0.04	0.21
End of Build	1298.00	35.00	168.69	1255.29	-201.88	40.28	205.88
End of Hole	2219.60	35.00	168.69	2010.22	-776.72	144.04	734.46
Target	3269.46	0.00	168.69	2986.00	-1025.00	205.00	1045.30
T.O. & End of Hole	3269.46	0.00	168.69	3122.00	-1025.00	205.00	1045.30



9-May-97
 Magnetic North is 10.94 degrees East of TRUE North
 To correct azimuth from Magnetic to TRUE add 10.94 deg

Baker Hughes INTEQ
 DRAWN BY: WALLY HOLBROOK
 DATE: MAY 16, 1997
 TVD REFERENCED RKB
 DENVER, COLORADO
 PHONE: (303) 534-3223

Azimuth 182.14 with reference 0.00 N, 0.00 E from SLOT #1

PHILLIPS PETROLEUM
SEC.5-T30N-R6W

SAN JUAN 31-6 #213
SLOT #1
RIO ARriba COUNTY
NEW MEXICO

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : INITIAL PLAN REENTRY
Our ref : prop2836
License :

Date printed : 16-May-97
Date created : 8-May-97
Last revised : 16-May-97

Field is centred on n36 33 0.000,w107 40 0
Structure is centred on n36 52 0.000,w106 20 0

Slot location is n36 52 18.440,w106 19 40.371
Slot Grid coordinates are N 2136567.330, E 477219.847
Slot local coordinates are 1865.00 N 1595.00 E

Projection type: mercator - New Mexico Central (3002), Spheroid: Clarke - 1866

Reference North is True North

05/16/97 13:46 2303 534 0878

BHI-DENVER

003/005

PHILLIPS PETROLEUM
 SEC.5-T30N-R6W,SAN JUAN 31-6 #213
 RIO ARRIBA COUNTY,NEW MEXICO

PROPOSAL LISTING Page 1
 Your ref : INITIAL PLAN REENTRY
 Last revised : 16-May-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
650.00	0.00	0.00	650.00	0.00	N	0.00	E	
658.00	3.00	168.69	658.00	0.21	S	0.04	E	0.00
698.00	5.00	168.69	697.90	2.94	S	0.59	E	37.50
798.00	10.00	168.69	797.01	15.74	S	3.15	E	5.00
898.00	15.00	168.69	894.61	36.95	S	7.39	E	5.00
998.00	20.00	168.69	989.95	66.43	S	13.29	E	5.00
1098.00	25.00	168.69	1082.31	103.94	S	20.79	E	5.00
1198.00	30.00	168.69	1170.98	149.21	S	29.84	E	5.00
1298.00	35.00	168.69	1255.29	201.88	S	40.38	E	5.00
1500.00	35.00	168.69	1420.76	315.49	S	63.10	E	0.00
2000.00	35.00	168.69	1830.34	596.71	S	119.34	E	0.00
2219.60	35.00	168.69	2010.22	720.22	S	144.04	E	0.00
2269.46	33.34	168.69	2051.48	747.68	S	149.54	E	3.33
2369.46	30.00	168.69	2136.57	799.16	S	159.83	E	3.33
2469.46	26.67	168.69	2224.58	845.69	S	169.14	E	3.33
2569.46	23.34	168.69	2315.19	887.13	S	177.43	E	3.33
2669.46	20.00	168.69	2408.11	923.34	S	184.67	E	3.33
2769.46	16.67	168.69	2503.02	954.18	S	190.84	E	3.33
2869.46	13.34	168.69	2599.60	979.56	S	195.91	E	3.33
2969.46	10.00	168.69	2697.52	999.39	S	199.88	E	3.33
3069.46	6.67	168.69	2796.45	1013.60	S	202.72	E	3.33
3169.46	3.33	168.69	2896.06	1022.15	S	204.43	E	3.33
3269.46	0.00	168.69	2996.00	1025.00	S	205.00	E	3.33
3395.46	0.00	168.69	3122.00	1025.00	S	205.00	E	0.00
								1045.30
								1045.30

WHIPSTOCK TOP
 WHIPSTOCK BASE

TOP OF COAL SEAM
 TOTAL DEPTH

All data is in feet unless otherwise stated.
 Coordinates from SLOT #1 and TVD from wellhead.
 Bottom hole distance is 1045.30 on azimuth 168.69 degrees from wellhead.
 Vertical section is from wellhead on azimuth 168.69 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

05/16/97

13:46

0303 534 0678

BHI-DENVER

0004/005

PHILLIPS PETROLEUM
 SEC.5-T30N-R6W,SAN JUAN 31-6 #213
 RIO ARriba COUNTY,NEW MEXICO

PROPOSAL LISTING Page 2
 Your ref : INITIAL PLAN REENTRY
 Last revised : 16-May-97

05/16/97 13:46

				<u>Comments in wellpath</u>	
MD	TVD	Rectangular Coords.		Comment	
650.00	650.00	0.00 N	0.00 E	WHIPSTOCK TOP	
658.00	658.00	0.21 S	0.04 E	WHIPSTOCK BASE	
3269.46	2996.00	1025.00 S	205.00 E	TOP OF COAL SEAM	
3395.46	3122.00	1025.00 S	205.00 E	TOTAL DEPTH	

ES303 534 0878

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
SJ 31-6 213		2996.00	1025.00S 205.00E	8-May-97

BHI-DENVER

005/005

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

Northwest Pipeline Corporation
 Section 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

JUN 29 1989

PRODUCTION AND DRILLING

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
 1009 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

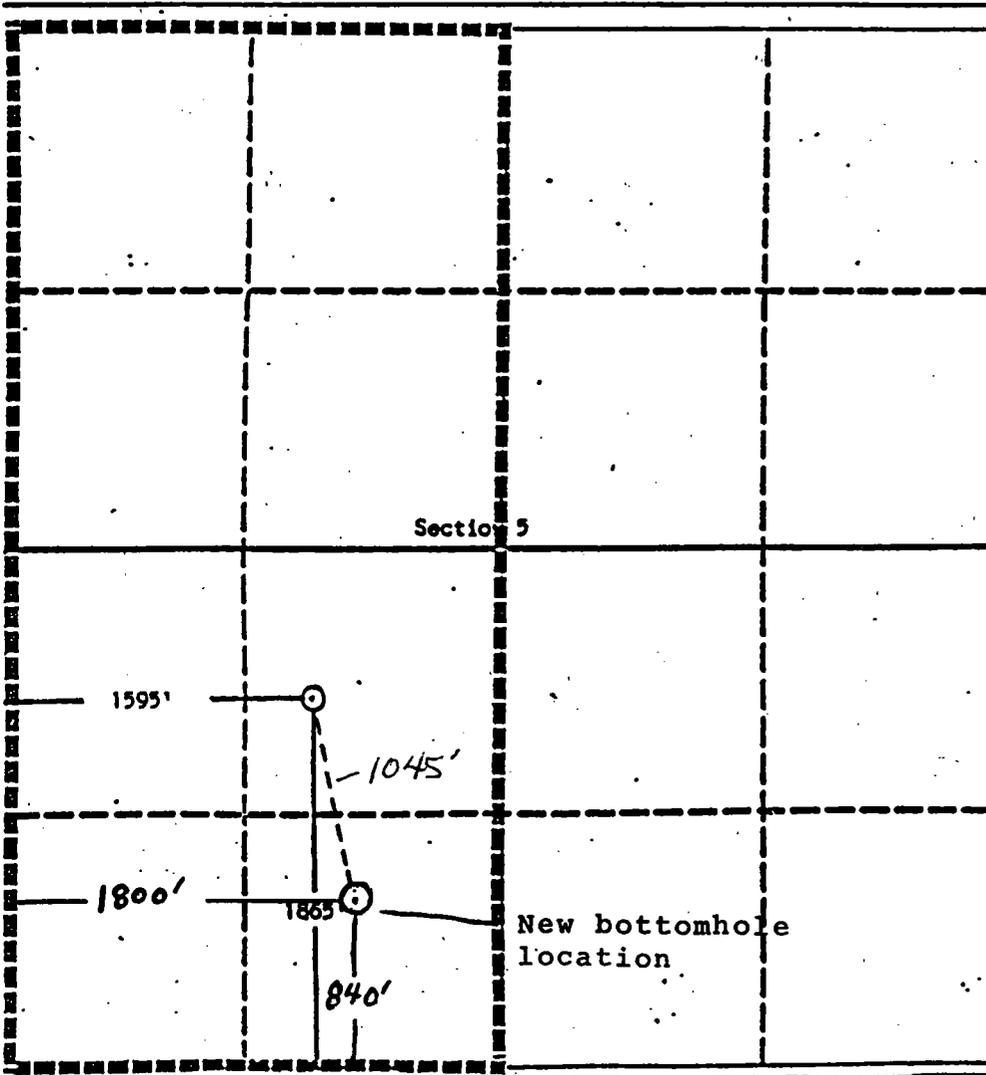
Operator Northwest Pipeline Corporation		Lease San Juan 31-6		Well No. 213	
Unit Letter K	Section 5	Township 30 North	Range 6 West	County NMPM Rio Arriba	
Actual Footage Location of Well:					
1865 feet from the South line and		1595 feet from the West line			
Ground level Elev. 6302	Producing Formation Fruitland		Pool Basin Fruitland Pool	Dedicated Acreage: 319.49 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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, forced-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: *Jeff Vaughan*

Printed Name: Jeff Vaughan

Position: Engineer

Company: Northwest Pipeline Corp.

Date: July 10, 1989

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: May 1989

Signature & Seal: *Edgar L. Riser*

Professional Engineer
 NEW MEXICO
 5979

Edgar L. Riser, L.S.



HIGH RESOLUTION SPECTRAL DENSITY LOG

COMPANY WELL FIELD COUNTY	COMPANY NORTHWEST PIPELINE CORPORATION		
	WELL SAN JUAN 31-6 NO 213		
	FIELD BASIN FRUITLAND COAL		
	COUNTY	SAN JUAN	STATE NM
	API NO.	OTHER SERVICES	
	LOCATION	SDL-DSN	
	1865 FSL AND 1595 FWL	FW	
		MICRO	
		DIGL	
		CAST	
	SEC. 5	TWP 30N	RGE 6W
PERMANENT DATUM CL		ELEV. 6302	ELEV.: K.B. 6318
LOG MEASURED FROM KB		16 FT. ABOVE PERM. DATUM	D.F. 6317
DRILLING MEASURED FROM KB			G.L. 6302
DATE	11/29/89		
RUN NO.	ONE		
DEPTH-DRILLER	3190		
DEPTH-LOGGER	3192		
BTH. LOG INTER.	3190		
TOP LOG INTER.	2982		
CASING-DRILLER	9 5/8*2982		
CASING-LOGGER	2982		
BIT SIZE	7.875		
TYPE FLUID IN HOLE	FRESH GEL		
DENS. VISC.	10.5 147		

FILE COPY

CALIPER

6 IN 16

GAMMA RAY

0 GAPI 200

Q LONG

4.5 QUALITY -0.5

QUALITY SHRT

-4.5 QUALITY 0.5

SP

0 MV 100

BULK DENSITY

1 GM/CC 3

DEEP

DEN CORR

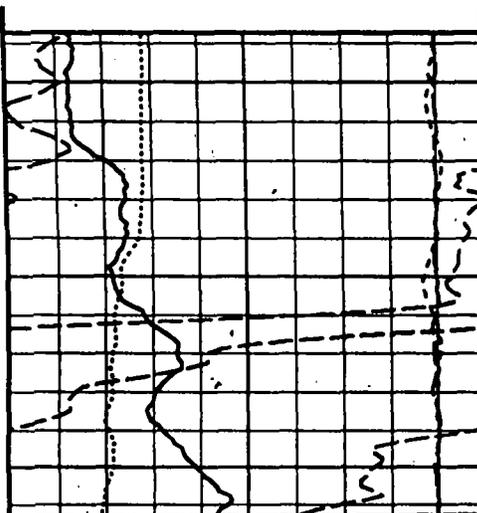
0 OHM-M 100 -0.4 GM/CC 0.1

PE

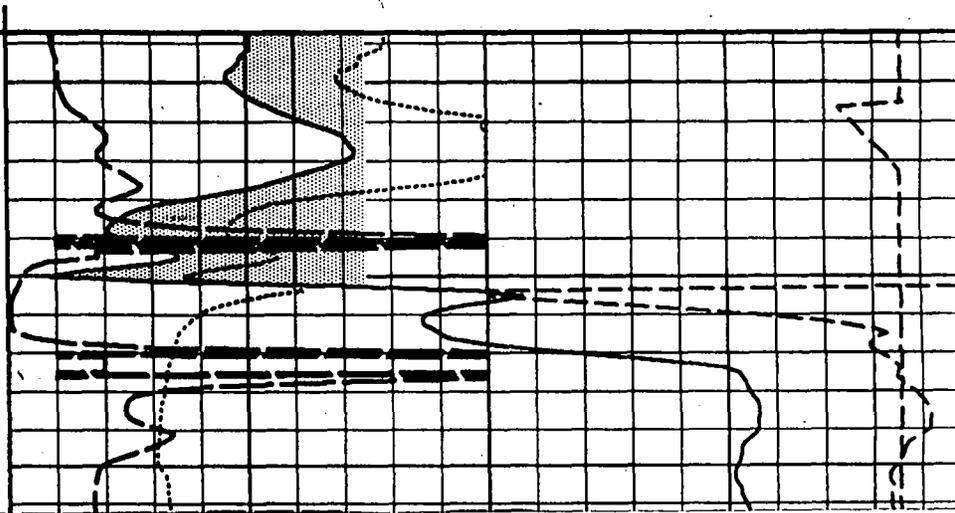
TENSION

0 B/E 10 10000 POUNDS 6

San Juan 31-6 #213



Coal



San Juan 31-6 Unit #213

List of Offset Operators

- 1) **Burlington Resources Oil & Gas Company**
P. O. Box 4289
Farmington, NM 87499-4289