Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
SF - 078116

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
FLORANCE 121M

2. Name of Operator
AMOCO PRODUCTION COMPANY

Contact: MARY CORLEY
E-Mail: corleymr@bp.com

9. API Well No.
30-045-30609

3a. Address
P.O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

10. Field and Pool, or Exploratory
BASIN DAKOTA/BLANCO MESAVE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 24 T30N R10W SENE 1875FNL 700FEL

11. County or Parish, and State
SAN JUAN COUNTY, NM

RECEIVED
OCT 2001
OIL CON. DIV.
DIST. 3

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original PD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Application for Permit to Drill the subject well was originally submitted on 03/27/2001 for permission to drill the subject well at a location 2585' FNL & 1445' FEL Section 24, T30N, T10W. Application was approved on 6/8/01.

A Sundry Notice was submitted on 08/27/2001 amending the drilling location from 2585' FNL & 1445' FEL to 1875' FNL & 700' FEL Section 24, T30N, T10W. Sundry application was approved on 9/28/2001.

Amoco Production Company respectfully requests permission to amend our drilling procedure and directionally drill the subject well from the permitted surface location to an estimated bottom hole location of 1713' FNL & 1660' FEL Section 24, T30N, R10W. In support of our application please see attached Form C-102 with both surface and bottom hole locations identified, revised

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #7606 verified by the BLM Well Information System
For AMOCO PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by Lucy Bee on 10/05/2001 ()

Name *(Printed/Typed)* MARY CORLEY — Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) — Date 10/05/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date 10/15/01

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

HOLD C104 FOR Directional Survey and new C102

NMOCD

Additional data for EC transaction #7606 that would not fit on the form

32. Additional remarks, continued

drilling and cementing program, and directional drilling plan.

AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance
Lease: FLORANCE
County: San Juan
State: New Mexico
Date: August 30, 2001

Well No: 121M
Surface Location: 24-30N-10W, 1875 FNL, 700 FEL
Field: Blanco Mesaverde/Basin Dakota
Bottom Location: 24-30N-10W, 1713 FNL, 1660 FEL

OBJECTIVE: Drill 400' below the base of the Greenhorn Limestone, set 41/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 - TD

LOG PROGRAM

TYPE	DEPTH INVERAL
OPEN HOLE	
GR-Induction	TD to 7" shoe
Density/Neutron	TD to 7" shoe
CASED HOLE	
GR-CCL-TDT	TDT – TD to 7" shoe
CBL	Identify 4 ½" cement top

REMARKS:
- Please report any flares (magnitude & duration).

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Estimated GL: 6302 Estimated KB: 6316

MARKER		SUBSEA	MEAS. DEPTH
Ojo Alamo		4649	1766
Fruitland Coal	*	3914	2586
Pictured Cliffs	*	3384	3131
Lewis Shale	#	3334	3181
Cliff House	#	1753	4763
Menefee Shale	#	1638	4878
Point Lookout	#	1143	5372
Mancos		1026	5490
Greenhorn		-894	7409
Bentonite Marker		-943	7458
Two Wells	#	-990	7505
Dakota MB	#	-1130	7645
Burro Canyon	*	-1260	7775
Morrison	*	-1310	
TOTAL DEPTH		-1393	7825

Probable completion interval * Possible Pay

SPECIAL TESTS

TYPE
None

REMARKS:

DRILL CUTTING SAMPLES

FREQUENCY	DEPTH
10 feet	Production hole

DRILLING TIME

FREQUENCY	DEPTH
Geolograph	0-TD

MUD PROGRAM:

Approx. Interval			Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 200		Spud	8.6-9.2			
200	- 3281	(1)	Water/LSND	8.6-9.2		<6	
3281	- 7825		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			

REMARKS:
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	3281	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7825	4 1/2"	J-55	11.6#	6.25"	3

REMARKS:
(1) Circulate Cement to Surface
(2) Set casing 100' into Lewis Shale
(3) Bring cement 100' above 7" shoe

CORING PROGRAM:
None

COMPLETION PROGRAM:
Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:
Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: Logging program reviewed by: N/A

PREPARED BY:	APPROVED:	DATE:	
HGJ/MNP		October 3, 2001 Version 6.0	

Form 46 12-00 MNP

Amoco Production Company
BOP Pressure Testing Requirements

Well Name: Florance 121M
County: San Juan **State:** New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1667		
Fruitland Coal	2402		
PC	2932		
Lewis Shale	2982		
Cliff House	4564	500	0
Menefee Shale	4679		
Point Lookout	5173	600	0
Mancos	5291		
Dakota	7306	2600	1436

** Note: Determined using the following formula: ABHP – (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 3000 psi

Cementing Program

Well Name:	Florance 121M	Field:	Blanco Mesaverde / Basin Dakota
Location:	24-30N-10W, 1875 FSL, 700 FEL	API No.	
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Dakota MesaVerde
		KB Elev (est)	6316
		GL Elev. (est)	6302

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	200	12.25	9.625	ST&C	Surface	NA	
Intermediate	3281	8.75	7	LT&C	Surface	NA	
Production -	7825	6.25	4.5	?	3181	NA	

Casing Properties: (No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	9.625	32	H-40	3370	1400	254	0.0787	8.845
Intermediate	7	20	K-55	3740	2270	234	0.0405	6.456
Production -	4.5	11.6	J-55	5350	4960	154	0.0155	3.875

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
0 - SCP	Water/Spud	8.6-9.2
SCP - ICP	Water/LSND	8.6-9.2
ICP - ICP2	Gas/Air Mist	NA
ICP2 - TD	LSND	8.6 - 9.2

Recommended Mud Properties Prio Cementing:

PV <20

YP <10

Fluid Loss<15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit	100%	80	40
Excess %, Caliper	NA	NA	25
BHST (est deg. F)	60	120	190
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max (bpm)	7	8	8
Rate Recommended (bpm)	6	6	6
Pressure, Max (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	2,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

*Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	108 sx Class G Cement		125 cuft

Cementing Program

	TOC@Surface	+ 2% CaCl2 (accelerator)	
		0.25 #/sk Cellophane Flake (lost circulation additive)	0.3132 cuft/ft OH
		0.1% D46 antifoam	100 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Casing Equipment: 9-5/8", 8R, ST&C

1 Guide Shoe
1 Top Wooden Plug
1 Autofill insert float valve
4 Centralizers
1 Stop Ring
1 Thread Lock Compound

Intermediate:

Fresh Water	20 bbl	fresh water	
Lead	253 sx	Class "G" Cement	733 cuft
Slurry 1		+ 3% D79 extender	
TOC@Surface		+ 2% S1 Calcium Chloride	
		+1/4 #/sk. Cellophane Flake	
		+ 0.1% D46 antifoam'	
Tail	107 sx	50/50 Class "G"/Poz	135 cuft
Slurry 2		+ 2% gel (extender)	
500 ft fill		0.1% D46 antifoam	0.1503 cuft/ft OH
		+1/4 #/sk. Cellophane Flake	0.1746 cuft/ft csg ann
		+ 2% CaCl2 (accelerator)	80 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.9	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment: 7", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
10 Centralizers (one in middle of first joint, then every third collar)
2 Fluidmaster vane centalizers @ base of Ojo
7 Centalizers one every 4th joint from Ojo to base of surface casing
1 Top Rubber Plug
1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100	
Lead	154	LiteCrete D961 / D124 / D154	389 cuft
Slurry 1		+ 0.03 gps D47 antifoam	
TOC@Surface		+ 0.5% D112 fluid loss	
		+ 0.11% D65 TIC	

Cementing Program

Tail		183 sx 50/50 Class "G"/Poz		264 cuft
Slurry 2		+ 5% D20 gel (extender)		+ 5 #/sk D24 gilsonite
	1835 ft fill	+ 0.1% D46 antifoam		+ 0.15% D65 TIC
		+ 1/4 #/sk. Cellophane Flake		+ 0.1% D800 retarder
		+ 0.25% D167 Fluid Loss		
				0.1026 cuft/ft OH
Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)	40 % excess
				0.1169 cuft/ft csg ann
Slurry 1	9.5	2.52	9.38	
Slurry 2	13	1.44	6.5	Top of Mancos
				5490

Casing Equipment:

4-1/2", 8R, ST&C
1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
39 Centralizers (every third joint
1 Top Rubber Plug
1 Thread Lock Compound

Schlumberger

Proposed Well Profile

Report Date:	August 24, 2001	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	BP	**Vertical Section Azimuth:**	279.580°
Field:	NM, San Juan County	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	BP 24-T30N-R9W / Florance #121M	**TVD Reference Datum:**	KB
Well:	Florance #121M	**TVD Reference Elevation:**	6316.0 ft relative to
Borehole:	New Borehole	**Sea Bed / Ground Level Elevation:**	0.000 ft relative to
UWI / API#:		**Magnetic Declination:**	11.292°
Survey Name / Date:	REV0 24Aug01 / August 24, 2001	**Total Field Strength:**	51580.957 nT
Tort / AHD / DDI / ERD ratio:	53.822° / 973.57 ft / 4.730 / 0.126	**Magnetic Dip:**	63.378°
Grid Coordinate System:	NAD83 New Mexico State Planes, Western Zone, US Feet	**Declination Date:**	August 24, 2001
Location Lat / Long:	N 36 31 0.000, W 108 23 0.001	**Magnetic Declination Model:**	BGGM 2000
Location Grid N/E Y/X:	N 2007835.000 ftUS, E 2561475.600 ftUS	**North Reference:**	True North
Grid Convergence Angle:	-0.32728780°	**Total Corr Mag North -> True North:**	+11.292°
Grid Scale Factor:	0.99994655	**Local Coordinates Referenced To:**	Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
	0.00	0.00	279.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
Surface Casing Point	200.00	0.00	279.58	200.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
KOP 3°/100	250.00	0.00	279.58	250.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
	300.00	1.50	279.58	299.99	0.65	0.11	-0.65	0.65	279.58	3.00	-80.4MTF
	400.00	4.50	279.58	399.85	5.89	0.98	-5.81	5.89	279.58	3.00	-80.4MTF
	500.00	7.50	279.58	499.29	16.34	2.72	-16.11	16.34	279.58	3.00	0.0
	600.00	10.50	279.58	598.04	31.98	5.32	-31.53	31.98	279.58	3.00	0.0
	700.00	13.50	279.58	695.85	52.77	8.78	-52.03	52.77	279.58	3.00	0.0
	800.00	16.50	279.58	792.43	78.65	13.09	-77.55	78.65	279.58	3.00	0.0
	900.00	19.50	279.58	887.52	109.55	18.23	-108.02	109.55	279.58	3.00	0.0
	1000.00	22.50	279.58	980.87	145.38	24.19	-143.35	145.38	279.58	3.00	0.0

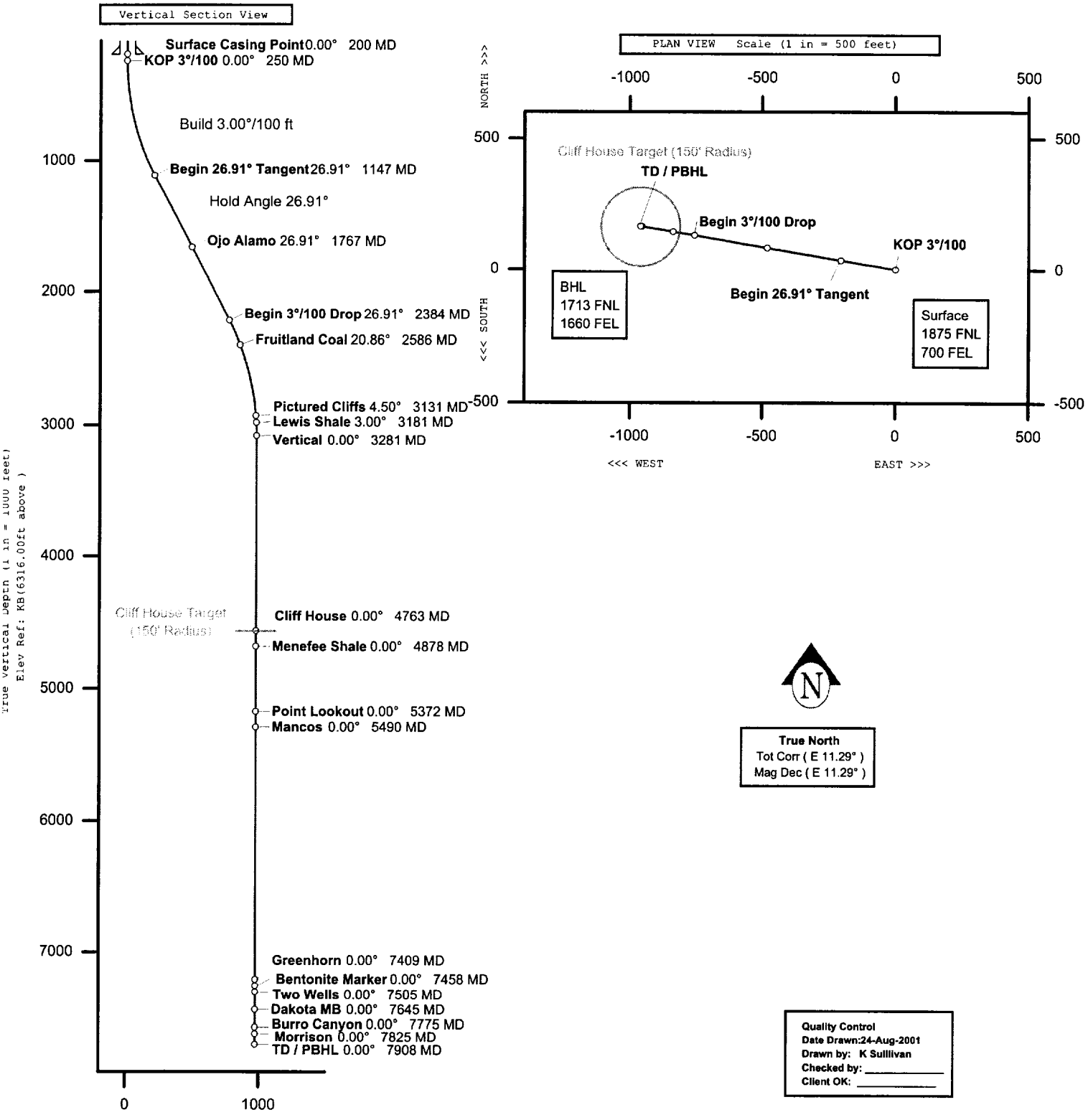
Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
	1100.00	25.50	279.58	1072.22	186.05	30.96	-183.45	186.05	279.58	3.00	0.0
Begin 26.91° Tangent	1147.03	26.91	279.58	1114.41	206.82	34.41	-203.93	206.82	279.58	3.00	0.0
Ojo Alamo	1766.73	26.91	279.58	1667.00	487.29	81.08	-480.50	487.29	279.58	0.00	0.0
Begin 3°/100 Drop	2384.17	26.91	279.58	2217.59	766.76	127.59	-756.07	766.76	279.58	0.00	180.0
	2400.00	26.44	279.58	2231.73	773.86	128.77	-763.07	773.86	279.58	3.00	180.0
	2500.00	23.44	279.58	2322.39	816.02	135.78	-804.64	816.02	279.58	3.00	180.0
Fruitland Coal	2585.95	20.86	279.58	2402.00	848.42	141.17	-836.59	848.42	279.58	3.00	180.0
	2600.00	20.44	279.58	2415.14	853.37	142.00	-841.47	853.37	279.58	3.00	180.0
	2700.00	17.44	279.58	2509.72	885.82	147.40	-873.47	885.82	279.58	3.00	180.0
	2800.00	14.44	279.58	2605.87	913.27	151.97	-900.54	913.27	279.58	3.00	180.0
	2900.00	11.44	279.58	2703.32	935.65	155.69	-922.61	935.65	279.58	3.00	180.0
	3000.00	8.44	279.58	2801.81	952.91	158.56	-939.62	952.91	279.58	3.00	180.0
	3100.00	5.44	279.58	2901.06	964.98	160.57	-951.53	964.98	279.58	3.00	180.0
Pictured Cliffs	3131.05	4.50	279.58	2932.00	967.67	161.02	-954.18	967.67	279.58	3.00	-80.4MTF
Lewis Shale	3181.16	3.00	279.58	2982.00	970.95	161.56	-957.42	970.95	279.58	3.00	-80.4MTF
	3200.00	2.44	279.58	3000.82	971.85	161.71	-958.30	971.85	279.58	3.00	-80.4MTF
Vertical	3281.21	0.00	279.58	3082.00	973.57	162.00	-960.00	973.57	279.58	3.00	-80.4MTF
Cliff House	4763.21	0.00	279.58	4564.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Menefee Shale	4878.21	0.00	279.58	4679.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Point Lookout	5372.21	0.00	279.58	5173.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Mancos	5490.21	0.00	279.58	5291.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Greenhorn	7409.21	0.00	279.58	7210.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Bentonite Marker	7458.21	0.00	279.58	7259.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Two Wells	7505.21	0.00	279.58	7306.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Dakota MB	7645.21	0.00	279.58	7446.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Burro Canyon	7775.21	0.00	279.58	7576.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Morrison	7825.21	0.00	279.58	7626.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
TD / PBHL	7908.21	0.00	279.58	7709.00	973.57	162.00	-960.00	973.57	279.58	0.00	0.0MTF

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)

Survey Error Model: *(No Error Model Selected)*

Schlumberger BP

WELL	FIELD	STRUCTURE
Florance #121M	NM, San Juan County	BP 24-T30N-R9W



District I
1625 N. French Dr., Hobbs, NM 88240
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 August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-30609	71599 & 72319	Basin Dakota & Blanco Mesaverde

[4] Property Code	[5] Property Name	[6] Well Number
000518	Florance	121M

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	Amoco Production Company	6284'

[10] Surface Location

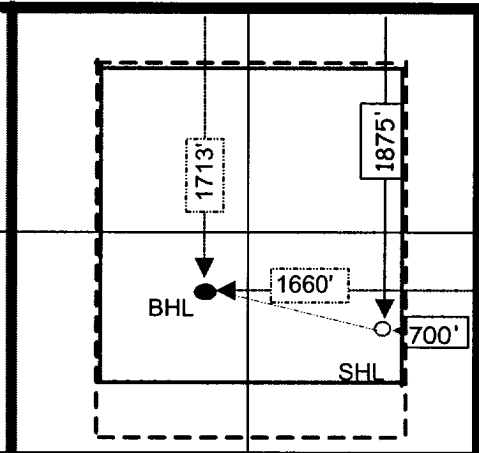
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit H	24	30N	10W		1875'	North	700'	East	San Juan

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
Unit G	24	30N	10W		1713'	North	1600'	East	San Juan

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
315.32			

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



[17] OPERATOR CERTIFICATION

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

Mary Corley
Signature

Mary Corley
Printed Name

Sr. Regulatory Analyst
Title

10/05/2001
Date

[18] SURVEYOR CERTIFICATION

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

8/14/01
Date of Survey

Signature and Seal of Professional Surveyor:

Gary D Vann 7016
Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
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 August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-30609	71599 & 72319	Basin Dakota & Blanco Mesaverde

[4] Property Code	[5] Property Name	[6] Well Number
000518	Florance	121M

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	Amoco Production Company	6284'

[10] Surface Location

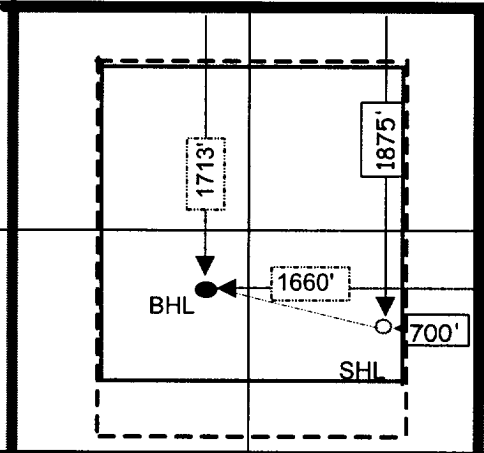
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit H	24	30N	10W		1875'	North	700'	East	San Juan

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
Unit G	24	30N	10W		1713'	North	1600'	East	San Juan

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
315.32			

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



Mesaverde - - -
Dakota - - -

[7] OPERATOR CERTIFICATION

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

Mary Corley

ignature

Mary Corley

rinted Name

Sr. Regulatory Analyst

Title

10/05/2001

Date

[18] SURVEYOR CERTIFICATION

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

8/14/01

Date of Survey

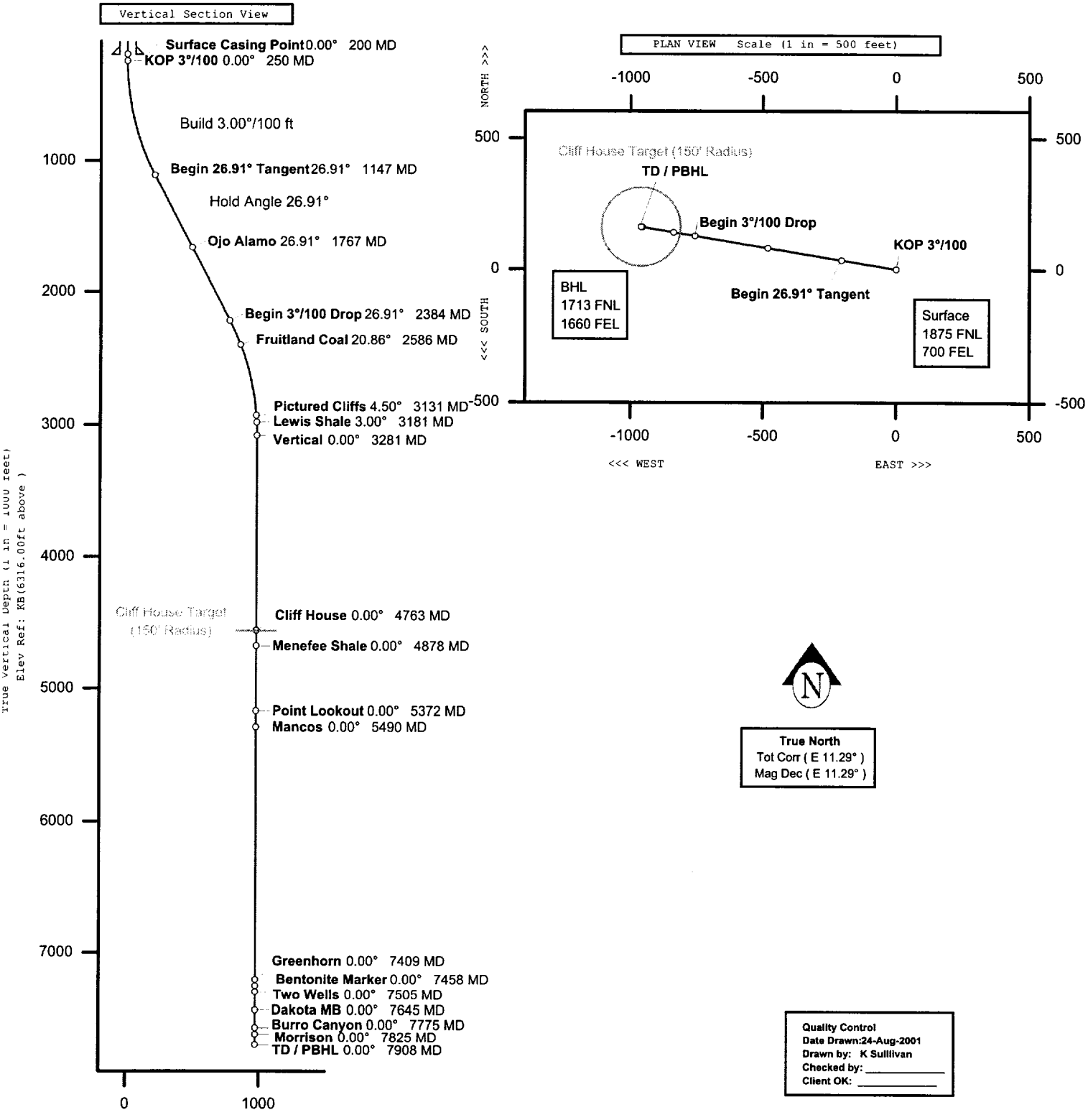
Signature and Seal of Professional Surveyor:

Gary D Vann 7016

Certificate Number

Schlumberger BP

WELL	FIELD	STRUCTURE
Florance #121M	NM, San Juan County	BP 24-T30N-R9W



Schlumberger

Proposed Well Profile

Report Date:	August 24, 2001	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	BP	**Vertical Section Azimuth:**	279.580°
Field:	NM, San Juan County	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	BP 24-T30N-R9W / Florance #121M	**TVD Reference Datum:**	KB
Well:	Florance #121M	**TVD Reference Elevation:**	6316.0 ft relative to
Borehole:	New Borehole	**Sea Bed / Ground Level Elevation:**	0.000 ft relative to
UWI / API#:		**Magnetic Declination:**	11.292°
Survey Name / Date:	REV0 24Aug01 / August 24, 2001	**Total Field Strength:**	51580.957 nT
Tort / AHD / DDI / ERD ratio:	53.822° / 973.57 ft / 4.730 / 0.126	**Magnetic Dip:**	63.378°
Grid Coordinate System:	NAD83 New Mexico State Planes, Western Zone, US Feet	**Declination Date:**	August 24, 2001
Location Lat / Long:	N 36 31 0.000, W 108 23 0.001	**Magnetic Declination Model:**	BGGM 2000
Location Grid N/E Y/X:	N 2007835.000 ftUS, E 2561475.600 ftUS	**North Reference:**	True North
Grid Convergence Angle:	-0.32728780°	**Total Corr Mag North -> True North:**	+11.292°
Grid Scale Factor:	0.99994655	**Local Coordinates Referenced To:**	Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
	0.00	0.00	279.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
Surface Casing Point	200.00	0.00	279.58	200.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
KOP 3°/100	250.00	0.00	279.58	250.00	0.00	0.00	0.00	0.00	0.00	0.00	-80.4MTF
	300.00	1.50	279.58	299.99	0.65	0.11	-0.65	0.65	279.58	3.00	-80.4MTF
	400.00	4.50	279.58	399.85	5.89	0.98	-5.81	5.89	279.58	3.00	-80.4MTF
	500.00	7.50	279.58	499.29	16.34	2.72	-16.11	16.34	279.58	3.00	0.0
	600.00	10.50	279.58	598.04	31.98	5.32	-31.53	31.98	279.58	3.00	0.0
	700.00	13.50	279.58	695.85	52.77	8.78	-52.03	52.77	279.58	3.00	0.0
	800.00	16.50	279.58	792.43	78.65	13.09	-77.55	78.65	279.58	3.00	0.0
	900.00	19.50	279.58	887.52	109.55	18.23	-108.02	109.55	279.58	3.00	0.0
	1000.00	22.50	279.58	980.87	145.38	24.19	-143.35	145.38	279.58	3.00	0.0

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
	1100.00	25.50	279.58	1072.22	186.05	30.96	-183.45	186.05	279.58	3.00	0.0
Begin 26.91° Tangent	1147.03	26.91	279.58	1114.41	206.82	34.41	-203.93	206.82	279.58	3.00	0.0
Ojo Alamo	1766.73	26.91	279.58	1667.00	487.29	81.08	-480.50	487.29	279.58	0.00	0.0
Begin 3°/100 Drop	2384.17	26.91	279.58	2217.59	766.76	127.59	-756.07	766.76	279.58	0.00	180.0
	2400.00	26.44	279.58	2231.73	773.86	128.77	-763.07	773.86	279.58	3.00	180.0
	2500.00	23.44	279.58	2322.39	816.02	135.78	-804.64	816.02	279.58	3.00	180.0
Fruitland Coal	2585.95	20.86	279.58	2402.00	848.42	141.17	-836.59	848.42	279.58	3.00	180.0
	2600.00	20.44	279.58	2415.14	853.37	142.00	-841.47	853.37	279.58	3.00	180.0
	2700.00	17.44	279.58	2509.72	885.82	147.40	-873.47	885.82	279.58	3.00	180.0
	2800.00	14.44	279.58	2605.87	913.27	151.97	-900.54	913.27	279.58	3.00	180.0
	2900.00	11.44	279.58	2703.32	935.65	155.69	-922.61	935.65	279.58	3.00	180.0
	3000.00	8.44	279.58	2801.81	952.91	158.56	-939.62	952.91	279.58	3.00	180.0
	3100.00	5.44	279.58	2901.06	964.98	160.57	-951.53	964.98	279.58	3.00	180.0
Pictured Cliffs	3131.05	4.50	279.58	2932.00	967.67	161.02	-954.18	967.67	279.58	3.00	-80.4MTF
Lewis Shale	3181.16	3.00	279.58	2982.00	970.95	161.56	-957.42	970.95	279.58	3.00	-80.4MTF
	3200.00	2.44	279.58	3000.82	971.85	161.71	-958.30	971.85	279.58	3.00	-80.4MTF
Vertical	3281.21	0.00	279.58	3082.00	973.57	162.00	-960.00	973.57	279.58	3.00	-80.4MTF
Cliff House	4763.21	0.00	279.58	4564.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Menefee Shale	4878.21	0.00	279.58	4679.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Point Lookout	5372.21	0.00	279.58	5173.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Mancos	5490.21	0.00	279.58	5291.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Greenhorn	7409.21	0.00	279.58	7210.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Bentonite Marker	7458.21	0.00	279.58	7259.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Two Wells	7505.21	0.00	279.58	7306.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Dakota MB	7645.21	0.00	279.58	7446.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Burro Canyon	7775.21	0.00	279.58	7576.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
Morrison	7825.21	0.00	279.58	7626.00	973.57	162.00	-960.00	973.57	279.58	0.00	-80.4MTF
TD / PBHL	7908.21	0.00	279.58	7709.00	973.57	162.00	-960.00	973.57	279.58	0.00	0.0MTF

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)

Survey Error Model: *(No Error Model Selected)*