

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION
P.O. Box 2088

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

Santa Fe, New Mexico 87504-2088

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

WELL API NO.	3004509857
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-10400
7. Lease Name or Unit Agreement Name	Atlantic D Com D LS
8. Well No.	5
9. Pool name or Wildcat	Blanco Mesaverde
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	6420' GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator Amoco Production Company	Attention: Patty Haeefe
3. Address of Operator P.O. Box 800 Denver Colorado 80201 (303) 830-4988	
4. Well Location Unit Letter K : 1650 Feet From The South Line and 1650 Feet From The West Line Section 2 Township 30N Range 10W NMPM San Juan County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6420' GR	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: Sidetrack <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company requests permission to sidetrack this well per the attached procedure.

RECEIVED
FEB - 9 1996
OIL CON. DIV.
DIST. 3

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

SIGNATURE <u>Patty Haeefe</u>	TITLE <u>Staff Assistant</u>	DATE <u>02-07-1996</u>
TYPE OR PRINT NAME <u>Patty Haeefe</u>	TELEPHONE NO. <u>(303) 830-4988</u>	

(This space for State Use)

APPROVED BY Ernie Boyd TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE FEB 12 1996
CONDITIONS OF APPROVAL, IF ANY: DD order

SJOET Well Work Procedure

Name Atlantic D Com D LS #5
Version: Preliminary
Date: February 6, 1996
Budget: Repair
Repair Type: Sidetrack Completion

Objectives:

1. Complete new sidetrack wellbore in Mesaverde.

Pertinent Information:

Location:	1650' FSL x 1650' FWL, Sec 2, T30N-R10W	Horizon:	MV
County:	San Juan	API #:	3004509857
State:	New Mexico	Engr:	Kutas
Lease:	State B-10400	Phone:	W-(303)830-5159
Well Flac:	932104		

Economic Information:

APC WI:	20.958%	Current MV Production	0 MCFD
Estimated Cost:	\$100,000	MV Anticipated Prod	350 MCFD
Payout:			
Max Cost -12 Mo. P.O.			
PV15:			
Max Cost PV15:	\$M		

Note: Economics will be run on all projects that have a payout exceeding ONE year.

Formation Tops: (Estimated formation tops)

Nacimiento:		Menefee:	5015'
Ojo Alamo:	1793'	Point Lookout:	5545'
Kirtland Shale:	1885'	Mancos Shale:	
Fruitland:	2726'	Gallup:	
Pictured Cliffs:	3126'	Graneros:	
Lewis Shale:	3162'	Dakota:	
Cliff House:	4807'	Morrison:	

Bradenhead Test Information:

Test Date:	Tubing:	Casing:	BH:	
Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments:

Atlantic D Com D LS #5
Orig. Comp. 12/54
TD = 5800', PBTD = 5700'
Elevations: GL = 6420'
Page 2 of 3

1. MIRU wireline unit. Run gauge ring to ensure clean casing. Tag for and report PBTD.
2. Run GR/CCL/TMD from TD' to 500' above to top of Cliffhouse. Fax log copy to Denver to select perforation intervals.
3. RU perforating equipment. Perforate PLO pay intervals using limited entry techniques. Perf intervals will be identified from TMD log. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" Penetration).
4. Break down perforations using 2% Kcl water and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
5. RU fracture stimulation equipment. Fracture stimulate PLO pay according to frac schedule A. Flowback well as soon as stimulation equipment is disconnected and moved off. Flow well back starting with 1/4" choke gradually increasing to 1/2" choke. Flow well back overnight or over weekend. Record flowing and shutin pressures, choke size, and liquid recoveries.
6. TIH w/ wireline and tag for fill. If sand fill is below next perf interval(s) then set wireline CIBP between MN and PLO. If sand fill is into MN section then a rig or CTU will be required to clean out fill prior to proceeding with completion.
7. Once CIBP is set, pressure test to ensure good seal.
8. RU perforating equipment. Perforate MN pay intervals using limited entry techniques. Perf intervals will be identified from TMD log. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" Penetration).
9. Break down perforations using 2% Kcl water and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
10. RU fracture stimulation equipment. Fracture stimulate MN pay according to frac schedule A. Flow back well as soon as stimulation equipment is disconnected and out of the way. Flow well back starting with 1/4" choke gradually increasing to 1/2" choke. Flow well back overnight or over weekend. Record flowing and shutin pressures, choke size, and liquid recoveries.
11. TIH w/ wireline and tag for fill. If sand fill is below next perf interval(s) then set wireline RBP between CH and MN. If sand fill is into CH section then a rig or CTU will be required to clean out fill prior to proceeding with completion.
12. Once RBP is set, pressure test to ensure good seal.
13. RU perforating equipment. Perforate CH pay intervals using limited entry techniques. Perf intervals will be identified from TMD log. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" Penetration).
14. Break down perforations using 2% Kcl water and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.

Atlantic D Com D LS #5

Orig. Comp. 12/54

TD = 5800', PBTD = 5700'

Elevations: GL = 6420'

Page 3 of 3

15. RU fracture stimulation equipment. Fracture stimulate CH pay according to frac schedule A. Flow back well as soon as stimulation equipment is disconnected and out of the way. Flow well back starting with 1/4" choke gradually increasing to 1/2" choke. Flow well back overnight or over weekend. Record flowing and shutin pressures, choke size, and liquid recoveries.
16. MIRUSU. TIH w/ tubing x bit and scraper. Clean out fill to RBP. Pull RBP. Clean out MN interval. DO CIBP. Clean out to PBTD.
17. Land 2 3/8" production tubing. Set tbg at approximately mid-perf depth' (1/2 mule shoe on bottom w/ seating nipple one joint up). Final setting depth will be selected based on pay intervals from TMD log. Flow well to clean up. Swab well in if necessary. RDMOSU.
18. Obtain gas and water samples. SI well pending equipment hook up. Turn well over to production.

January 28, 1996
revised 02/05/95

Atlantic "D" Com D #5

1,650' FSL, 1,650' FWL Sect. 2, 31N, 10W
San Juan County, New Mexico
Sidetrack Procedures

PREPARATION

1. MIRUSU complete with 3.5 power swivel, circulating equipment and rental string of 2.875" drill pipe or Hydril PH-6 tubing and 6-3.750" drill collars. Ensure that the drill pipe and collars have recent inspection papers.
2. Blow down well, ND tree, NUBOPS and pull 2.375" tubing. (Landed at 4,733'--Baker Model R-3 DG Packer at 2,013'.) Hole in 7.000" casing at 1,890' (2 BPM at 500 psi). Lay down tubing and fish packer with drill pipe if tubing parts.
3. Pick up drill pipe and set CIBP at 4,600'. Circulate hole with fresh water. Mix and pump 25 sx Class "B" cement (neat) at 15.7 ppg and spot on top of bridge plug (100'+). POH.
4. Run CBL from 4,000' to top of cement (2,665' by TS). Check for good cement at KOP of 3,450' and check for cement below surface pipe at 165' to see if previous operators pumped down bradenhead. If no good cement is found at KOP, perforate, set retainer 100' above holes and squeeze with 100 sx of 50:50 Pozmix containing 0.4 % Halad 344, 0.25 #/sx floccle, and 5-10 #/sx Gilsonite and CAL-SEAL as recommended by Howco. Remainder of bradenhead cement work will depend on CBL but will probably require the following steps.
5. Set cement retainer at 1,800' and attempt to establish circulation to bradenhead. If circulation obtained, mix and pump sufficient cement to circulate. Use same cement mixture as in step #4 and proceed to step #7. If no circulation obtained, squeeze holes with 100 sx of the same and proceed to step #6.
6. Perforate 4 JSPF at 1,200' (above Ojo Alamo), set retainer at 1,100' and repeat step #5.
7. WOC. NDBOPS, install casing spool above bradenhead to receive the 4.500" long string. NUBOPS.
8. Pick up 6.250" tooth bit with premium bearings, 6-3.750" drill collars on the drill pipe (tubing) and drill out cement and retainers. Test each perforated interval to 750 psi after drilling and re-squeeze with 100 sx cement if necessary. Re-run CBL if any question of good cement at KOP.
9. RDMOSU.

Atlantic "D" Com LS D #5

SIDETRACK

page 2

1. MIRURT complete with 3.500" drill string, air package and misting equipment. NUBOPS and test to 2,000 psi with third party tester on first well and every third well thereafter.
2. Orient Smith Anchor-Stock whipstock at KOP at 180 degrees with gyro, running gyro from surface for tie-in. Mill window utilizing air/mist, reaming window sufficiently to run directional and stiff bottom hole assemblies without problem.
3. Pick up premium, gage protected, 6.125" TC bit, directional equipment and cut curve as indicated on the attached directional program. Trip out when bit wears out and pick up stiff bottom hole assembly with monel collar and rotate ahead to total measured depth. Take single shot surveys every 150-200' to make certain the general azimuth direction is acceptable and that the angle is not dropping excessively. A final directional plot is required at TMD by the NMOCD. Generally, the directional program is as follows.

KOP--	3,450' TVD
Orientation--	180 +/- 20 degrees
Curve--	3 degrees/100'
Maximum angle--	28-30 degrees

Total depth--	5,600' TVD	5,794'TMD
---------------	------------	-----------

4. Lay down the 3.500" drill string, run 4.500" used casing using a marker joint at 1,000' from bottom. Utilize stand-off bands (4.625" x 6.000") every second joint on the lower 20 joints and every third joint thereafter up to 100' inside the existing 7.000" casing.
5. Cement w/325 sx (60% excess) 50:50 Pozmix containing 2 % gcl, 6 % salt, 0.4 % Halad 344, 0.25 #/sx flocele, 5 #/sx gilsonite. Pump 20 bbls water ahead, mix and pump cement at 13.5-14.0 ppg and displace with water. Utilize two wiper plugs (discuss w/ Howco--attempt to ensure that the cement is completely wiped from the casing to allow a rigless completion). This single stage job should bring cement at least 500' inside the 7.000" casing. Reciprocate the casing throughout the cement job, passing joints. Land casing in full tension. Run temperature survey 10-12 hours after bumping plug.

6. RDMORT.



brad

02/05/96 10:37 AM

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

File No.: atndcm5.dwg
Date: 2/6/96

FINAL COPY

Lease: Atlantic "D" Com "D" LS	Well No. #5	
County: San Juan, New Mexico	Location: 1650' FSL, 1650' FL Sect. 2, 30N, 10W	
Former name: None	Field: Basin Mesaverde	30 10

OBJECTIVE: Further exploit the Mesaverde.				
METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL-----Estimated KB		
Rotary	0 - TD		6420	6432
		Marker	True Vert Depth	Msd.Depth (ft.)
SPECIAL SURVEYS				
TYPE	DEPTH			SS Elev. (ft.)
NONE		Ojo Alamo	1,793	4,639
		Kirtland	1,885	4,547
		Fruitland*	2,726	3,706
		Pictured Cliffs*	3,126	3,306
		Lewis Shale	3,162	3,270
		Cliff House*	4,725	1,707
		Menefee	4,909	1,523
		Point Lookout	5,366	1,066
REMARKS:				
Logs run as considered necessary.		KOP		
None anticipated		3,450 3,450		
		TOTAL DEPTH 5,600 5,794		
		#Probable completion * Possible pay		
		OJO ALAMO IS POSSIBLE USEABLE WATER		
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY
None		As penetration rate pe ICP TD	Geolograph	0 - TD
Remarks:				
		Mud Logging Program:		None
		Coring Program:		None

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt.	W/L, cc's/30 min.
0-----SCP	None--Recompletion only			
SCP---ICP	None--Recompletion only			
ICP---TD	Air/Mist	////		

REMARKS:

An air/mist circulating medium will be used as necessary to remove steel cuttings and to protect air motors.

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	In place			
Intermediate	In place			
Production	5,794	4 1/2"	6 1/8"	1

Remarks:

1. Production casing will be cemented back up into the 7.000" Intermediate.

GENERAL REMARKS:

Well was drilled and completed in 1954. Will plug the existing open hole with CIBP set in 7.000" casing at 4,600' and 100' of Class "B" cement spotted on top (4,600-4,500'). Casing will be tested, repaired if necessary and the upper water sands will be protected by circulating and /or squeezing with cement. A whipstock will be set at +/-3,450' and the well redrilled into the Mancos at an approximate 180 degree azimuth. Southern Rockies Engineering staff to design completion program.

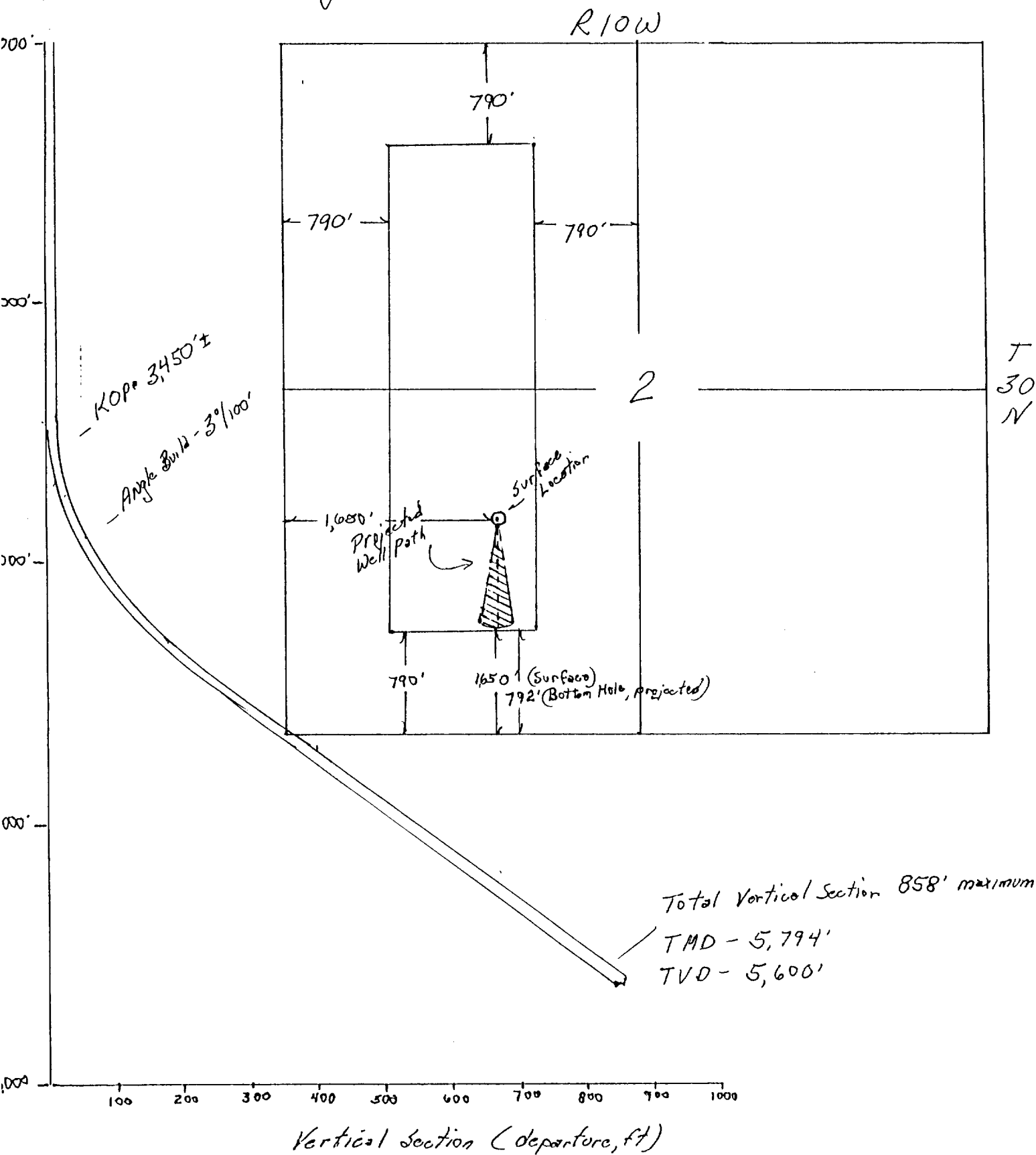
Form 46 Reviewed by:	Logging program reviewed by:
PREPARED BY:	APPROVED:
Kutas/bilyeu	<i>Kurt Kutas</i>
Form 46 7-84bw 2/6/96	For Production Dept 2/2/96
	APPROVED:
	For Exploration Dept.

Amoco Production Company

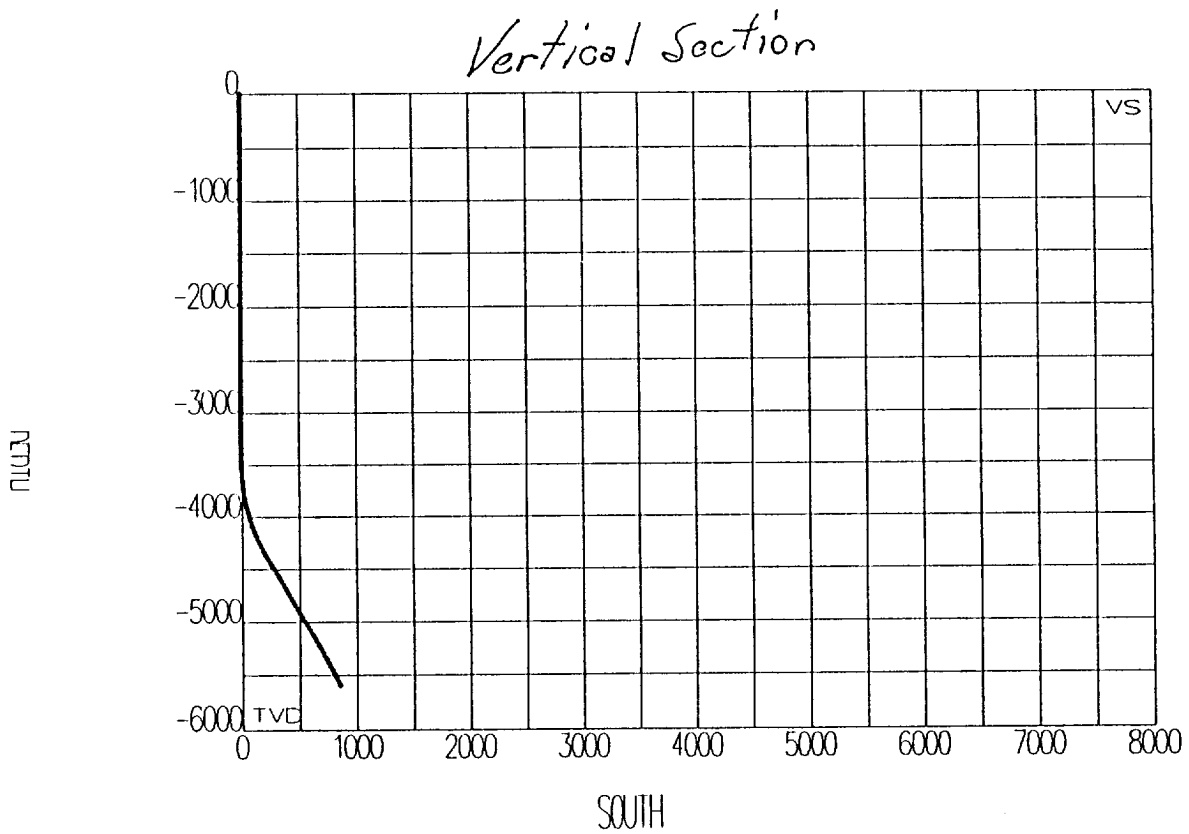
ENGINEERING CHART

Sheet No. _____ Of _____
 File _____
 Appn _____
 Date 2/5/96
 By [Signature]

SUBJECT Atlantic D Com "D" LS #5
1650' FSL, 1650' FWL Sect 2, 30N, 10W
San Juan County, New Mexico



Atlantic D Com'D" LS #5
1650' FSL, 1650' FNL
Seat 2K, 30N, 10W
San Juan County, New Mexico



Atlantic D Com D^u L S^m 5
1650' FSL, 1650' FWL
Section 2K, T30N, R10W
San Juan County, New Mexico

Units are FEET

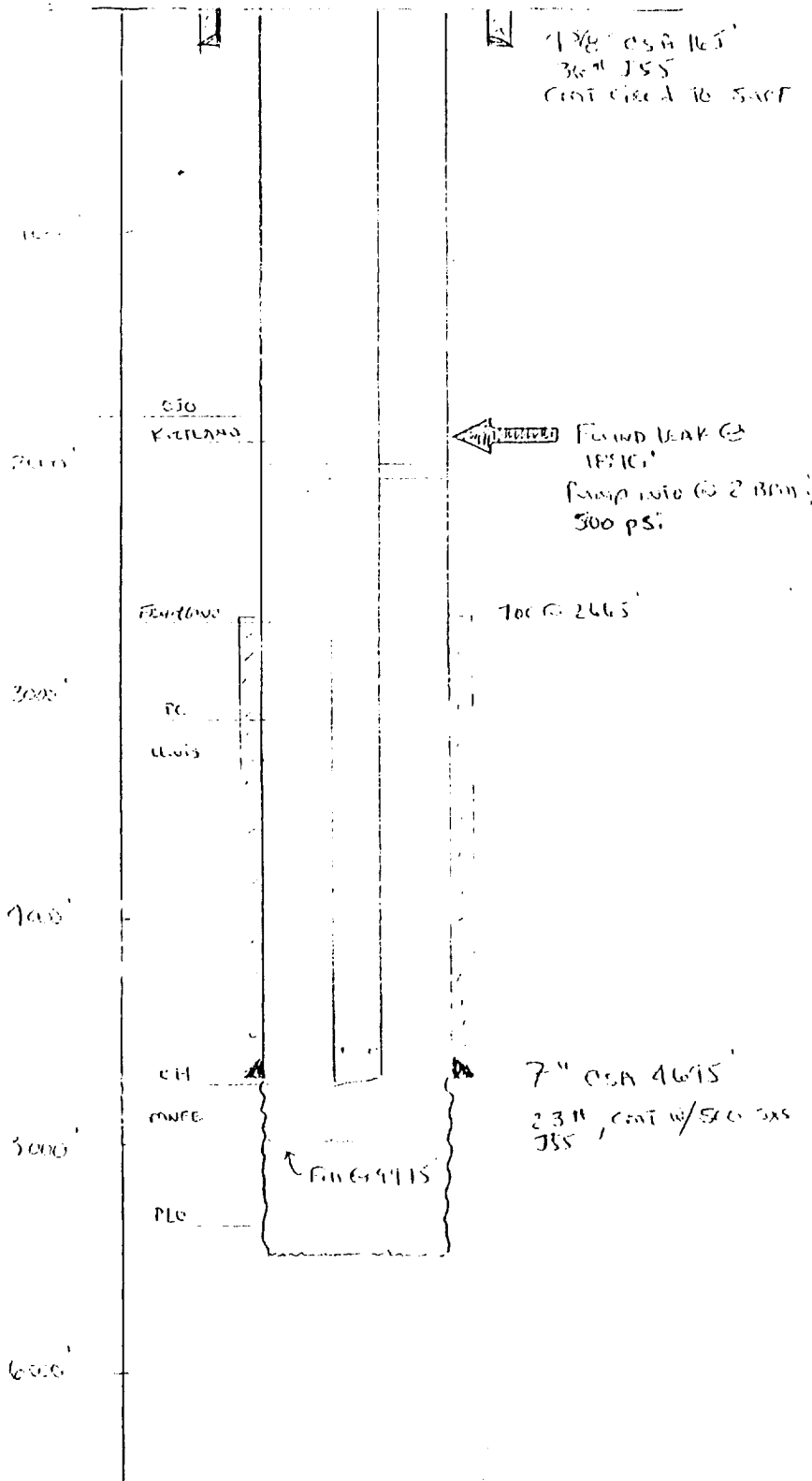
T I	Meas. Depth	Survey Incl Dir		Depth (TVD)	North -South	East -West	Vert. Section	Closure Dist Dir		Dog Leg
	.00	.00	180.00	.00	.00	.00	.00	0	0	.0
	3450.00	.00	180.00	3450.00	.00	.00	.00	0	0	.0
	3500.00	1.50	180.00	3499.99	-.65	.00	.65	1	180	3.0
	3600.00	3.00	180.00	3599.91	-4.58	.00	4.58	5	180	1.5
	3700.00	6.00	180.00	3699.59	-12.43	.00	12.43	12	180	3.0
	3800.00	9.00	180.00	3798.73	-25.48	.00	25.48	25	180	3.0
	3900.00	12.00	180.00	3897.04	-43.70	.00	43.70	44	180	3.0
	4000.00	15.00	180.00	3994.27	-67.04	.00	67.04	67	180	3.0
	4100.00	18.00	180.00	4090.14	-95.44	.00	95.44	95	180	3.0
	4200.00	21.00	180.00	4184.39	-128.81	.00	128.81	129	180	3.0
	4300.00	24.00	180.00	4276.77	-167.08	.00	167.08	167	180	3.0
	4400.00	27.00	180.00	4367.02	-210.13	.00	210.13	210	180	3.0
	4500.00	28.00	180.00	4455.72	-256.30	.00	256.30	256	180	1.0
	4600.00	28.00	180.00	4544.01	-303.25	.00	303.25	303	180	.0
	4700.00	28.00	180.00	4632.31	-350.19	.00	350.19	350	180	.0
	4800.00	28.00	180.00	4720.60	-397.14	.00	397.14	397	180	.0
	4900.00	28.00	180.00	4808.90	-444.09	.00	444.09	444	180	.0
	5000.00	28.00	180.00	4897.19	-491.04	.00	491.04	491	180	.0
	5100.00	28.00	180.00	4985.49	-537.98	.00	537.98	538	180	.0
	5200.00	28.00	180.00	5073.78	-584.93	.00	584.93	585	180	.0
	5300.00	28.00	180.00	5162.08	-631.88	.00	631.88	632	180	.0
	5400.00	28.00	180.00	5250.37	-678.82	.00	678.82	679	180	.0
	5500.00	27.00	180.00	5339.07	-725.00	.00	725.00	725	180	1.0
	5600.00	27.00	180.00	5428.17	-770.40	.00	770.40	770	180	.0
	5700.00	27.00	180.00	5517.27	-815.80	.00	815.80	816	180	.0
	5793.00	27.00	180.00	5600.14	-858.02	.00	858.02	858	180	.0

Amoco Production Company

ENGINEERING CHART

SUBJECT ATLANTIC D COM D LSS IN

Sheet No. _____ Of _____
 Date _____
 App'd _____
 Date 11-16-75
 By G.M.K.



- 1/12 - Run w/ tag - LEFT 2/3 OF TAG IN HOH.
- RECOVER FISH - STATIONED ANCHOR PLUGGER
- RUN TAG, PER A BP - SET BP
- PER TEST CSY - FOUND LEAK @ 1810'
- PER TEST CSY - HOOD @ BELOW LEAK @ 800 PSI
- RUN w/ BP, PER, RUN IN HOH w/ TAG @ PER, (AND BIRM TAG @ 4733' w/ SN 144 OFF BIRM @ 1/2 mile short on BIRM; BIRM R3 DA PER @ 2013' (4.7" JSS)

7" CSY 4695'
 2 3/4" CSY w/ 5/8" JSS TOC @ 2665' (Temporary)

BAKER OIL TOOLS

DATE 1-16-92 WELL NO. 5 LEASE ATLANTIC D CON DAS FIELD

Denver Office

KB

12.00

64 JOINTS 2 3/8

2001.66

4754 R-3 DOUBLE GAP
w/ SURFES

8.50

85 JOINTS 2 3/8

2679.40

4732 SEAT NIPPLE

1.00

1 JOINT 2 3/8

30.89

Bottom 7" @ 4695

4733

OPEN HOLE

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION
P.O. Box 2088

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

Santa Fe, New Mexico 87504-2088

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

WELL API NO.

3004509857

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-10400

7. Lease Name or Unit Agreement Name

Atlantic D Com D LS

8. Well No.

5

9. Pool name or Wildcat

Blanco Mesaverde

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Amoco Production Company

Attention:

Patty Haeefe

3. Address of Operator

P.O. Box 800

Denver

Colorado

80201

4. Well Location

Unit Letter K : 1650 Feet From The South Line and 1650 Feet From The West Line

Section 2 Township 30N Range 10W NMPM San Juan County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

6420' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Well Pad Enlargement

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company's "Plan of Existing Well Pad and Proposed Enlargement for Re-entry" for the proposed sidetrack submitted on 2/7/96 is attached.

RECEIVED
FEB 12 1996
OIL CON. DIV.
DIST. 3

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

SIGNATURE

Patty Haeefe

TITLE

Staff Assistant

DATE

02-09-1996

TYPE OR PRINT NAME

Patty Haeefe

TELEPHONE NO. (303) 830-4988

(This space for State Use)

APPROVED BY

Johnny Robinson

TITLE

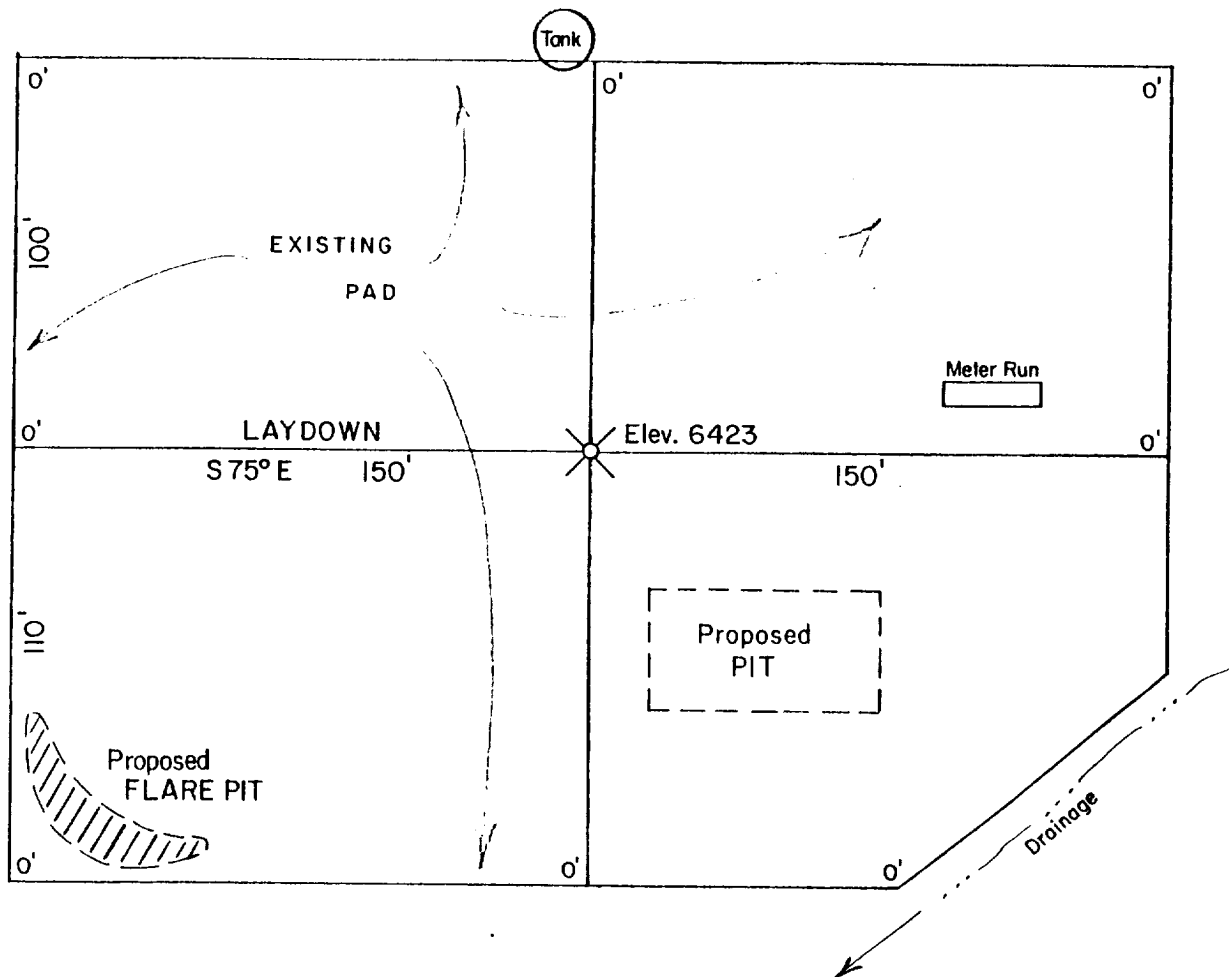
DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE

FEB 12 1996

CONDITIONS OF APPROVAL, IF ANY:

PLAN OF EXISTING WELL PAD
AND PROPOSED ENLARGEMENT FOR RE-ENTRY
AMOCO PRODUCTION COMPANY
ATLANTIC D COM D # 5
1750' F/SL 1530' F/WL
SEC. 2, T 30 N, R 10 W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



NOTE: Contractor should call 1-800-321-2537 for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 days prior to construction.

January 29, 1996
SCALE: 1" = 50'