Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

		5. Lease Designation and Serial No.	
SUNDRY NOTICES AND REPO	NM-013686		
Do not use this form for proposals to drill or to deepen of Use "APPLICATION" FOR PERMIT - " for	6. If Indien, Allottee or Tribe Name		
		7, If Unit or CA, Agreement Designation	
1. Type of Well Oil Gee Well Well Other		8. Well Name and No.	
2. Name of Operator	Attention:	FIRCHAIU A	
AMOCO PRODUCTION COMPANY	Pat Archuleta	9. API Well No.	
3. Address and Telephone No. P.O. BOX 800 DENVER, COLORADO 80201	303-830-5217	3004522020 10. Field and Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		Blanco Mesaverde	
	T 30N R 9W UNIT I	11. County or Parish, State SAN JUAN NEW MEXICO	
12. CHECK APPROPRIATE BOX(s) TO IN	DICATE NATURE OF NOTICE R	FPORT, OR OTHER DATA	
	TYPE OF ACTION	2. 0, 0	
TYPE OF SUBMISSION	TITE OF ACTION		
NG2)	Abendonment	Change of Plans	
Notice of Intent	Recompletion	New Construction Non-Routine Fracturing	
Subsequent Report	Plugging Back Casing Repair	Water Shut-Off	
Subsequent report	Altering Casing	Conversion to Injection	
Final Abandonment Notice	Other Sidetrack	Dispose Water	
	(Note: Repo Recompleti	ort results of multiple completion on Well Completion or on Report and Log form.)	
Amoco Production Company requests permission to		C .	
	PECEIVER N jul - 7 tss7 OIL GOBL. DIV		
14. I hereby certify that the foregoing is true and correct	Dibilo 3	06-02-1997	
Signed Las Carchilla	TitleStaff Assi.	Stant Date	
(This space for Federal or State office use) /S/ Durant W. Spencer	Title	JUL - 3 1997	
Approved by			
The same of the sa	ly to make to any department or agency of the United Sta	Ites any taise, ficticious, of fraudulent statements of	

representations as to any matter within its jurisdiction.

SJOET Well Work Procedure

Pritchard A 2A

Version:

#1

Date: **Budget:** May 22, 1997 Major Cash

Repair Type:

Sidetrack

Objectives:

- Directionally sidetrack MV well towards fratured feature at high angle.
- Drill with natural gas through the fractured intervals.
- Complete either open hole or case, perf, and frac.

Pertinent Information:

Location:

1710' FSL x 1090' FEL; I1-T30N-R09W

County: State:

San Juan **New Mexico** NM-013686

Lease: Well Flac:

979278

Horizon:

MV

API #: Engr:

30-045-22020 M. Rothenberg

Phone:

H-(303)841-8503 W-(303)830-5612

P-(303)553-6448

Economic Information:

APC WI:

50%

Estimated Cost:

\$500,000

Anticipated Prod.:

1565MCFD

Payout:

2.3

ROI

3.833

IRR %

66

DROI(13)

1.637

PV(13)

347

Estimated costs do not include surface equipment. Note:

Formation Tops: (Estimated formation tops)

Nacimento:

Oio Alamo:

Kirtland Shale:

Fruitland:

Pictured Cliffs: 3150' Lewis Shale: 3290'

Cliff House

4905'

CSG

Menefee:

Point Lookout:

5383' Mancos Shale:

5498'

5025'

Gallup:

Graneros: Dakota:

TD:

5610'

Bradenhead Test Information:

Test Date:

5/96

Tubing:

127

INT

Casing:

CSG

128

BH: 0

Time BH 5 min

10 min

15 min

Comments:

Pritchard A 2A
Orig. Comp. 7/76
TD = 5610' PBTD = 5545'
Page 2 of 2

Suggested Procedure:

Prep. work: daylight rig

- 1. Check location to ensure adequate size for sidetrack. Install and test anchors.
- 2. MIRUSU.
- 3. Blow down well, NDWH. NUBOPS. (includes cost for wellhead tenairs)
- 4. Pull Donut, TOH with tubing.
- 5. TIH with tubing and packer and squeeze perfs with cement. TOH.
- 6. RU wireline. RIH with CBL and GR and log. Perform remedial cementing if necessary.
- 7. PU anchor and TIH, set whipstock, and mill with starting mill.
- 8. TOH and PU window cutting mill. TIH and mill window. TOH.
- 9. PU and TIH with watermellon mill and open window. TOH.
- 10. TIH with bit and build bottom hole assembly and drill approx. 150'. TOH
- 11. RDMOSU.

Directional work: 24hr drilling rig

1. MIRURT. NUBOPS and Casing Spool.

2. PU 6.25" bit, float, motor, MWD or other continuous survey, DC/DP. TIH and drill, building angle and orientation according to drilling plan. Drill to TD with gas. TOH.

Run 4.5" casing from TD to point determined from prep work and hang off as liner. (NOTE: If fractured zones are successfully intersected, casing may be landed above MV and leave MV open hole).

3. Cement 4.5" casing with appropriate volume of cement.

4. RDMORT.

Completion: daylight rig

NOTE: If fractured zones are successfully intersected, completion may not be necessary.

- 1. MIRUSU.
- 2. Run cased hole logs (cbl/gr/ccl, neutron log for some wells).
- 3. Perforate Point Lookout/Menefee determined from above logs.
- 4. Acid breakdown and ball off perforations.
- 5. Frac Point Lookout/Menefee.
- 6. Flowback as soon as possible of 1/4" choke, changing to 1/2" or larger depending on activity of well, pressures, and sand production.
- 7. Set RBP above perforations
- 8. Perforate Cliffhouse/Menefee at depths determined from logs.
- 9. Acid breakdown and ball off perforations.
- 10. Frac Cliffhouse/Menefee.
- 11. Flowback as soon as possible of 1/4" choke, changing to 1/2" or larger depending on activity of well, pressures, and sand production
- 12. Cleanout to RBP. Retrieve RBP and clean out to PBTD.
- 13. RDMOSU.
- 14. Turn well over to production.

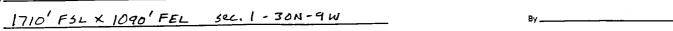
If problems are encountered, please contact: Mark Rothenberg (W) (303)830-5612 (H) (303)841-8503 (P) (303)553-6448

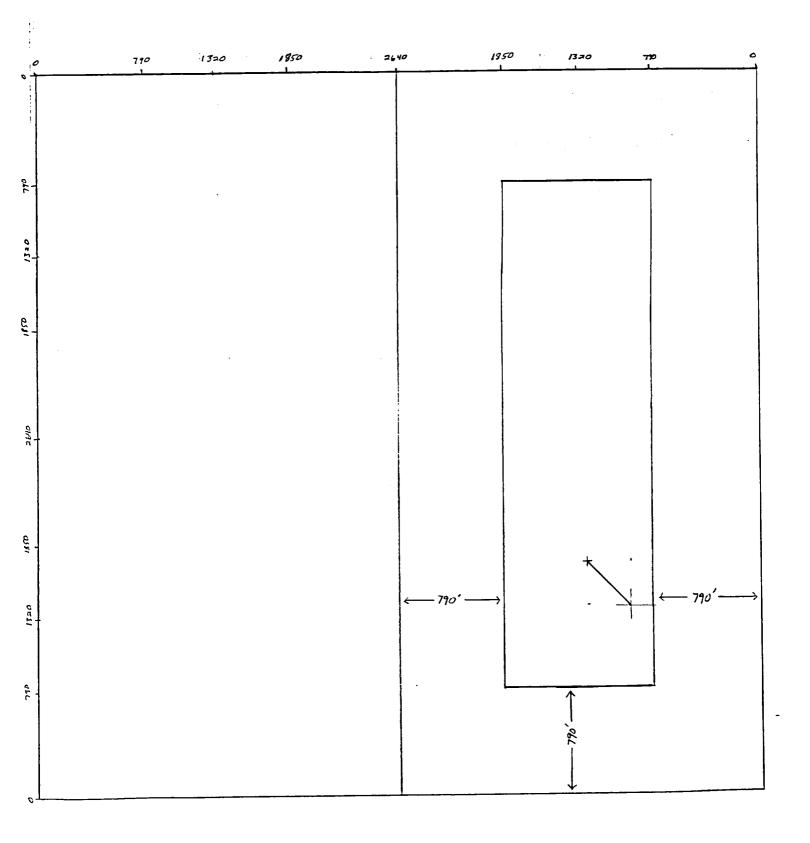
	Amo	co Product	ion Co	pany	File	
		ENGINEERIN	G CHART		Appn	
SUBJECT	Pritchard Z-A, 1718	FSL I	820' FE		Date 15	12/89
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			\triangle		Csa	3476
TOPS:	Cliff House - 4906					
	Menesse - 5026	4				
	Point Lookout - 5384					
7.0	4910', 4919', 4948	' 49 ₆₋₂ '				
Perfs:	4910 4919 4946	5023				
	5082', 5087', 5109	1' 5146'				
	5158, 5388, 542	6 5436	ĺ			
	5446, 5456, 547	1, 5508				
	5518' (all single	shots)			PBTD 554	5'
		· •			,,	
					4 1/2", 10.	5# K-55
			ī	D 5610'	csa 56	20g

ADMN 006062

ENGINEERING CHART

SUBJECT Pritchard A 2A - 3004522020







A DRESSER INDUSTRIES, INC. COMPANY

Amoco Production Co.
New Mexico
Re-Entry Wells
Sec 1-T30N-R9W
Pritchard A2A - Alternate Pritchard A 2A

PROPOSAL REPORT

20 May, 1997

Sperry-Sun Drilling Services



Proposal Report for Pritchard A2A - Alternate Pritchard A 2A

Amoco Production Co. New Mexico Re-Entry Wells Sec 1-T30N-R9W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
3100.00	0.000	0.000	3100.00	0.00 N	0.00 E	0.00	0.000
4700.00	0.000	0.000	4700.00	0.00 N	0.00 E	0.00	0.000
4940.05	34.279	136.113	4925.98	50.23 S	48.31 E	69.69	14.280
5493.14	34.279	136.113	5383.00	274.74 S	264.27 E	381.21	0.000
5614.16	34.279	136.113	5483.00	323.86 S	311.52 E	449.37	0.000

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to Well. Northings and Eastings are relative to Well.

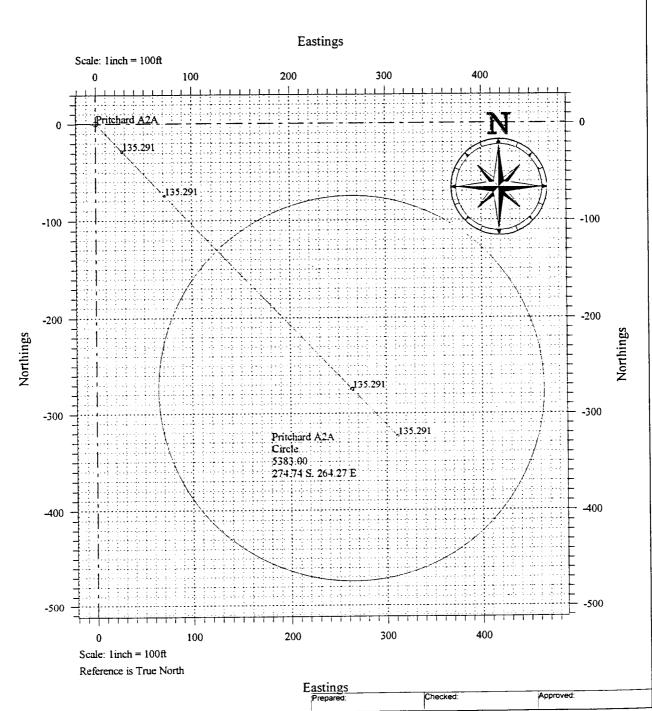
The Dogleg Severity is in Degrees per 100ft. Vertical Section is from Well and calculated along an Azimuth of 136.113° (True). Coordinate System is NM-W. Grid Convergence at Surface is -0.822°.

Based Upon Minimum Curvature type calculations, at a Measured Depth of 5614.16ft., The Bottom Hole Displacement is 449.37ft., in the Direction of 136.113° (True).

Customer: Amoco Production Co. Folder: Amoco Production Co.

Field: New Mexico Project: Re-Entry Wells Structure: Sec 1-T30N-R9W

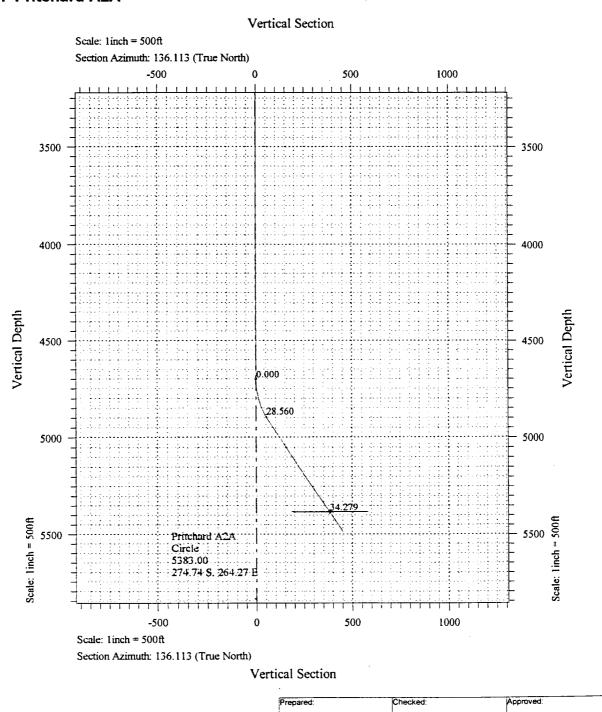
Well: Pritchard A2A



Well: Pritchard A2A

Customer: Amoco Production Co. Folder: Amoco Production Co.

Field: New Mexico Project: Re-Entry Wells Structure: Sec 1-T30N-R9W Well: Pritchard A2A



SJOET Well Work Procedure

Pritchard A 2A

Version:

#1

Date:

June 19, 1997

Budget: Repair Type: Major Cash Sidetrack

Objectives:

Directionally sidetrack MV well towards fratured feature at high angle.

Drill with natural gas through the fractured intervals.

Complete either open hole or case, perf, and frac.

Pertinent Information:

Location:

1710' FSL x 1090' FEL; I1-T30N-R09W

MV

County:

San Juan **New Mexico** API #: Engr:

Horizon:

30-045-22020 M. Rothenberg

State: Lease:

NM-013686

Phone:

H-(303)841-8503

Well Flac:

979278

W-(303)830-5612

P-(303)553-6448

Economic Information:

APC WI:

50%

Estimated Cost:

\$500,000

Anticipated Prod.:

1565MCFD

Payout:

2.3

ROI

3.833

IRR %

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DROI(13)

1.637

PV(13)

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Estimated costs do not include surface equipment. Note:

Formation Tops: (Estimated formation tops)

Nacimento:

Menefee:

5025'

Oio Alamo:

Point Lookout:

5383'

Kirtland Shale:

Mancos Shale: Gallup:

5498'

Fruitland:

127

Graneros:

Pictured Cliffs: Lewis Shale: Cliff House

3150' 3290' 4905'

Dakota:

TD:

5610'

Bradenhead Test Information:

Test Date:

5/96

Tubing:

Casing:

128

BH: 0

INT CSG **CSG** Time BH 5 min 10 min 15 min

Comments:

Pritchard A 2A
Orig. Comp. 7/76
TD = 5610' PBTD = 5545'
Page 2 of 2

Suggested Procedure:

Prep. work: daylight rig

- 1. Check location to ensure adequate size for sidetrack. Install and test anchors.
- 2. MIRUSU.
- 3. Blow down well, NDWH. NUBOPS. (includes cost for wellhead repairs)
- 4. Pull Donut, TOH with tubing.
- 5. RIH with CIBP and set at 4850'. Mix and pump 25sx Class "B" neat cement at 15.6 ppg and spot on top of bridge plug (330').
- 6. RU wireline. RIH with CBL and GR and log. Perform remedial cementing if necessary. (wellfile indicates cement circulated for liner, ensure this is the case, that there is good cement 50' below the 7" shoe, and that there is good cement above liner for KOP).
- 7. PU anchor and TIH, set whipstock at approximately 3225', and mill with starting mill.
- 8. TOH and PU window cutting mill. TIH and begin to mill 6.25" window. TOH.
- 9. PU and TIH with watermellon mill and open window to 6.25". TOH.
- 10. TIH with bit and build bottom hole assembly and drill approx. 150'. TOH.
- 11. RDMOSU.

Directional work: 24hr drilling rig

- 1. MIRURT. NUBOPS and Casing Spool.
- 2. PU 6.25" bit, float, motor, MWD or other continuous survey, DC, DP. TIH and drill, building angle and orientation according to drilling plan. Drill to TD with gas. TOH.
 - Run 4.5" casing from TD to point determined from prep work and hang off as liner at approximately 3100'. (NOTE: If fractured zones are successfully intersected, casing may be landed above MV and leave MV open hole).
- 3. Cement 4.5" casing with appropriate volume of cement approximately 360 cuft with Class "B" neat cement.
- 4. RDMORT.

Completion: daylight rig

NOTE: If fractured zones are successfully intersected, completion may not be necessary.

- 1. MIRUSU.
- 2. Run cased hole logs (cbl/gr/ccl, neutron log for some wells).
- 3. Perforate Point Lookout/Menefee determined from above logs.
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If problems are encountered, please contact:

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(P) (303)553-6448



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office 1235 La Plata Highway Farmington, New Mexico 87401

Attachment to Notice of

Re: Sidetrack

Intention to Workover

Well: 2A Pritchard A

CONDITIONS OF APPROVAL

- 1. Spot a cement plug from 3550' to 3216' inside the 4 1/2" and 7.0" casings. (7.0" csg. set @ 3500', top of 4 1/2" liner @ 3266') (31 sks.)
- 2. **Mike Flaniken** with the Farmington District Office is to be notified at least 24 hours before the workover operations commence (505) 599-8907.