DEPARTMEN BUREAU OF L SUNDRY NOTICES Do not use this form for proposals to d	TED STATES NT OF THE INTERIOR LAND MANAGEMENT IVED AND REPORTS ON WELLS drill or to deepen or reentry to a different reservoir. FOR PERMIT - " for such proposals	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 6. lease Designation and Serial No. NM-0606 6. If Indian, Allottee or Tribe Name
1. Type of Well Oil Gas Well Other 2. Name of Operator A moco Production Company	Attention:	8. Well Name and No. Atlantic A LS 3 9. API Well No.
Amoco Production Company 3. Address and Telephone No. P.O. Box 800, Denver, CO 4. Location of Well (Footage, Sec., T., R., M., or Survey Desc., 790' FSL 990' FWL	Patty Haefele 80201 (303) 830-4988 cription) Sec. 28 T 31N R 10W Unit M	3004510242 10. Field and Pool, or Exploratory Area Blanco Mesaverde 11. County or Parish, State San Juan New Mexico
12. CHECK APPROPRIATE BO	OX(s) TO INDICATE NATURE OF NOTICE TYPE OF ACTIO	
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Sidetrack (Note:	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water Report results of multiple completion on Well Completion or pletion Report and Log form.)
subsurface locations and measured and true vertical dept	e all pertinent details, and give pertinent dates, including estimated date of sta the for all markers and zones pertinent to this work.)* sts permission to sidetrack this well per the attache	
		DECENTION FEB 2 3 1353

OIL CON. DIX. DIST. 3

SEE ATTACHED FOR CONSITIONS OF APPROVAL

14.1 hereby certify that the foregoing is true and correct Signed Patty Halfele	Title	Staff Assistant	Date	02-08-1996
his space for Federal or State office use)		APP	RO	VED
Approved by Conditions of approval, if any:	Title	FE	₀ B 1 3 19	96
itle 18 U.S.C. Section 1001, makes it a crime for any person knowingly and v spresentations as to any matter within its jurisdiction.	willfully to make to any descriment or a	gency of the United States any false, it	DOT MAN	ent statements or
		~ UIO1	NICT MAN	AUCH

SJOET Well Work Procedure

Name

Atlantic A LS #3

Version:

Preliminary

Date:

February 6, 1996

Budget:

Repair

Repair Type:

Sidetrack Completion

Objectives:

1. Complete new sidetrack wellbore in Mesaverde.

Pertinent Information:

Location:

790' FSL x 990' FWL, Sec 28, T31N-R10W

County:

San Juan

State:

Lease:

New Mexico

Well Flac:

978771

Horizon:

MV

API #:

3004510242

Engr:

Kutas

Phone:

W-(303)830-5159

Economic Information:

APC WI:

25%

Current MV Production

0 MCFD

Estimated Cost:

\$100,000

MV Anticipated Prod

450 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)

Nacimento:

1412' Ojo Alamo:

1489' Kirtland Shale: Fruitland: 2403'

Pictured Cliffs: Lewis Shale: Cliff House:

2798'

2856' 4455' Menefee:

Point Lookout:

Mancos Shale:

Gallup: Graneros: Dakota:

Morrison:

Bradenhead Test Information:

BH

Test Date:

Tubing:

CSG

Casing:

INT

CSG

BH:

4725'

5203'

Time 5 min

10 min

15 min

Comments:

Atlantic A LS #3
Orig. Comp. 1/53
TD = 5500', PBTD = 5400'
Elevations: GL = 6071'
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).
- 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 A LS #3 Orig. Comp. 1/53

TD = 5500', PBTD = 5400'

Elevations: GL = 6071'

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 02/06/96

Atlantic "A" LS #3
790' FSL, 990' FWL Sect. 28, 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 5,140'--crimped on bottom. May be stuck) If stuck, cut at 4,350' and lay down.
- 3. Pick up drill pipe and set CIBP at 4,300'. 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. Test easing to 750 psi. If test positive, proceed to step 5. If easing leaks, pick up RTTS packer and isolate hole(s).
- 5. Run CBL from 4,000' to top of cement (2,910' by TS). Check for good cement at KOP of 3,400' and check for cement below surface pipe at 174' 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 flocele, and 5-10 #/sx Gilsonite and CAL-SEAL as recommended by Howco. Remainder of bradenhead work will depend on CBL but will probably require the following steps.
- 6. Perforate 4 JSPF at 2,400' (top of Fruitland) unless casing leaks found near this depth.
- 7. Set cement retainer at 2,300' and attempt to establish circulation to bradenhead. If circulation obtained, mix and pump sufficient cement to circulate. Use same cement mixture as in step #5 and proceed to step #9. If no circulation obtained, squeeze holes with 100 sx of the same and proceed to step #8.
- 8. Perforate 4 JSPF at 1,000' (above Ojo Alamo), set retainer at 900' and repeat step #7.
- 9. WOC. NDBOPS, install casing spool above bradenhead to receive the 4.500" long string. NUBOPS.
- 10. 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 cement at KOP is questionable
- 11. RDMOSU.

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 60 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 (Smith F37 DODPD w/motor, F37 DP conventional), 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-- 3,400' TVD

Orientation-- 60 +/- 20 degrees Curve-- 3 degrees/100' Maximum angle-- 28-30 degrees

Total depth-- 5,300' TVD 5,460' TMD

- 4. Lay down the 3.500" drill string, run 4.500" used easing 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" easing.
- 5. Cement w/325 sx (60% excess) 50:50 Pozmix containing 2 % gel, 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.

02/06/96 9:52 AM

Amoco Production Company

Sheet No

ENGINEERING CHART Date 11-2-95 ATLANTIC A LS 3 MV SUBJECT... By GMK SECTION 28M - TOIN-RIOW 93/8" esa 174" 25.44 SPIRAL WELD CMT CIRCTO JURE Completed JAN 1953 1000 DH 3/107 W/1330 QTS 524 STTP/CP - 1056/1061 751 KiRTLAND 200PRESENT CONDITION: FRUITUND 23/8" TSA 5140" PC - OH CANED IN ; CRIMPED TRY Lewis 3000 - Producing BACKSIDE @ 30-35 McD * DOWNHOR CONFIGURTION LINKHOUD: OFFSET OF STIME VINTAGE HUE OPMA & PENT 4000 SUB OD BTM 7" CSA 4379' Cliff House 20 H JSS CMT W 300 SXS MESFEE TOCE 2910' BY TEMP SUM 0002 BIATLOOKEUT Open Hole TO 5208 MAKCE

مثنا

Suggestion: NO BH Prublem, But should do Remedial conting NOW AS PRECINCTION ANY MEAS.

ciff Hu - 4410' Pt Lookat - 5095

Maners - 5/60'

FINAL COPY

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

2/6/96

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L	.E	а.	Э,		

Atlantic "A" LS

Well No.

#3

exploit the Mesaverde. DEPTH OF 0 - TD		790' FSL, 990' FWL Basin Mesaverde APPROXIMATE DE Actual GLEs Marker Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos KOP	91 PTHS OF GEOLOG	10 GICAL MARKER 6071 Msd.Depth (ft.) 1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	6083 SS Elev. (ft.) 4,671 4,594 3,680 3,285 3,227 1,678 1,438 1,013			
DEPTH OF 0 - TD	DRILLING	APPROXIMATE DE Actual GLEs Marker Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,405 4,645 5,070 5,169	6071 Msd.Depth (ft.) 1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	SS Elev. (ft.) 4,671 4,594 3,680 3,285 3,227 1,678 1,438			
DEPTH OF 0 - TD	DRILLING	Actual GLEs Marker Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,405 4,645 5,070 5,169	6071 Msd.Depth (ft.) 1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	SS Elev. (ft.) 4,671 4,594 3,680 3,285 3,227 1,678 1,438			
DEPTH OF 0 - TD	:	Actual GLEs Marker Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,405 4,645 5,070 5,169	6071 Msd.Depth (ft.) 1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	SS Elev. (ft.) 4,671 4,594 3,680 3,285 3,227 1,678 1,438			
O-TD	:	Marker Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,405 4,645 5,070 5,169	Msd.Depth (ft.) 1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	SS Elev. (ft.) 4,671 4,594 3,680 3,285 3,227 1,678 1,438			
	DEPTH	Ojo Alamo Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,405 4,645 5,070 5,169	1,412 1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	4,671 4,594 3,680 3,285 3,227 1,678 1,438			
ecessary.	DEPTH	Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,645 5,070 5,169	1,489 2,403 2,798 2,856 4,455 4,725 5,203 5,314	4,594 3,680 3,285 3,227 1,678 1,438			
ecessary.	DEPŤH	Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,645 5,070 5,169	2,403 2,798 2,856 4,455 4,725 5,203 5,314	3,680 3,285 3,227 1,678 1,438			
ecessary.		Pictured Cliffs* Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,645 5,070 5,169	2,798 2,856 4,455 4,725 5,203 5,314	3,285 3,227 1,678 1,438			
ecessary.		Lewis Shale Cliff House* Menefee Point Lookout Mancos	4,645 5,070 5,169	2,856 4,455 4,725 5,203 5,314	3,227 1,678 1,438			
ecessary.		Cliff House* Menefee Point Lookout Mancos	4,645 5,070 5,169	4,455 4,725 5,203 5,314	1,678 1,438			
ecessary.		Menefee Point Lookout Mancos	4,645 5,070 5,169	4,725 5,203 5,314	1,438			
ecessary.		Point Lookout Mancos	5,070 5,169	5,203 5,314	•			
ecessary.		Mancos	5,169	5,314	1,013			
ecessary.			i	1 1				
ecessary.		КОР	3.400	l				
•		1	-,,,,,,	3,400				
		1						
		TOTAL DEPTH	5,300	5,460				
		#Probable completion * Possible pay						
		OJO ALAMO IS PO	SSIBLE USEABLE	WATER				
SPECIAL TESTS			SAMPLES	DRILLING TIME				
DEPTH INT	TERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPT			
TYPE DEPTH INTERVAL, ETC None		As penetration rate	pe ICPTD	Geolograph	0 - T			
		Remarks:						
		Mud Logging Progra	am:	None				
		Coring Program:		None				
Type Mud	Weight, #/gal	Vis, sec/qt.		•	W/L, cc's/30 mi			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 . 3	•						
Recompletion only								
Recompletion only								
Air/Mist	1111							
<u>.</u>								
	•	Recompletion only	Recompletion only	Recompletion only	Recompletion only			

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

CASING PROGRAM:

Casing String

Estimated Depth

Casing Size

Hole Size

Landing Point, Cement, Etc

Surface

Conductor

In place

In place Intermediate

5,460 Production

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 1953. Will plug the existing open hole with CIBP set in 7.000" casing at 4,300' and 100' of Class "B" cement spotted on top (4,300'-4,200'). 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 =/-3,400' and the well redrilled into the Mancos at an approximate 60 degree azimuth. Southern Rockies Engineering staff to design completion program.

Form 46 Reviewed by: /	Logging program reviewed by:	
PREPARED BY:	APPROVED: ///	APPROVED:
Kutas/bilyeu	11/08/1/nge	
Form 464-84bw-16/96	For Production Depts 21/6/96	For Exploration Dept.
	J 28/0/10	•

Atlantic A LS 3 W/IVIV onsets

ettantic M	W 3 447	INIA OII20	, to 	L	
	4-		+		4
+		•			
Lock Cain IA	: Kock Lambe 2 7642/500	Lambe IA 2557/380	Keck: Lambe 3 Thin/110	mot Albalic GA 2623/400	Allantics 6760 25 4 most Allantic
Kock ^t Cain I 1134/200	Kock Lambe 2A 2593/300	Kock Lambe 1 11774/420	Kork Lambe 3A 23.57/300	H MOE Albatic 6 Shoryys	Mor Alloalic SA 2034/Jaj
mor Hanlic ALS RA 1355/400	MOLE Allandic ALSP Yoldy 110	N ^t C AlbalícALS 3A 2361/500	Arc Allanlic Auso 684/330	1100 AC 1400	4 Arc Allantic 4770/0
MOI Allanlic ALS7 6351/0	+ mos Allonlic A Ls 7 2264/2.	Allonlic ALS 3	VIC- VIPUIC H FZSN VIC-	Arc Alladic A LS 7 9727/200-164	
THUNG COME FZ 34 SIGN 320	5 mo I Sunray K Com! 6713/175	Arct Albalic BLS (cn 2018/300	Arc Alladic B Ly 8208/200		nrc Allontic (St.77/275
PLC ELME C'WB F23 1918/120	ymoz Sunray K Gola 1465/20	APC Allantie B LS G 4457/125	Menlic B LSM	11111111111111111111111111111111111111	Mostic B JA Allantic B JA
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Amoco Production Company ENGINEERING CHART SUBJECT Attantic A LS #3 Dato___02/05/86 Jan Juan County, New Mexico 2.000 -1 7901 - 790' 790' -3,000'-Verrical Jepsin, ft Surface Location 790' Maximum Vertical Section - 735' 5000'-TVO - 5300' TMD - 5460' 6,000 200 300 400 500 100 600 800 Vertical Section (departure, ft)

Sheel No

Atlantic H" 45" 3 190 FSL, 980 FWL Sect 28M, 3IN, 10W San Juan County, New Mexico

Units are FEET

т	Meas.	Sur	vey	Depth	North	East	Vert.	Closu	ire	Dog
I	Depth	Incl	Dir	(TVD)	-South	-West	Section	Dist	Dir	Leg
-										
				0.0	0.0	0.0	.00	0	0	. 0
	.00	.00	60.00	.00	.00	.00		0	0	.0
	3400.00	.00	60.00	3400.00	.00	.00	.00			
	3500.00	3.00	60.00	3499.95	1.31	2.27	2.62	3	60	3.0
	3600.00	6.00	60.00	3599.63	5.23	9.06	10.46	10	60	3.0
	3700.00	9.00	60.00	3698.77	11.76	20.36	23.51	24	60	3.0
	3800.00	12.00	60.00	3797.08	20.87	36.14	41.74	42	60	3.0
	3900.00	15.00	60.00	3894.31	32.54	56.36	65.08	65	60	3.0
	4000.00	18.00	60.00	3990.18	46.74	80.95	93.48	93	60	3.0
	4100.00	21.00	60.00	4084.43	63.43	109.86	126.85	127	60	3.0
	4200.00	24.00	60.00	4176.81	82.56	142.99	165.12	165	60	3.0
	•									
	4300.00	27.00	60.00	4267.06	104.08	180.27	208.16	208	60	3.0
	4400.00	27.00	60.00	4356.16	126.78	219.59	253.56	254	60	. 0
	4500.00	27.00	60.00	4445.26	149.48	258.91	298.96	299	60	. 0
	4600.00	27.00	60.00	4534.36	172.18	298.22	344.36	344	60	. 0
	4700.00	27.00	60.00	4623.46	194.88	337.54	389.76	390	60	.0
	• • • • • • • • • • • • • • • • • • • •									
	4800.00	27.00	60.00	4712.56	217.58	376.86	435.16	435	60	. 0
	4900.00	27.00	60.00	4801.66	240.28	416.17	480.56	481	60	. 0
	5000.00	27.00	60.00	4890.76	262.98	455.49	525.96	526	60	.0
	5100.00	27.00	60.00	4979.86	285.68	494.81	571.35	571	60	. 0
	5200.00	27.00	60.00	5068.96	308.38	534.12	616.75	617	60	. 0
	5200.00	27.00	00.00	0000.00		. ,				
	5300.00	27.00	60.00	5158.06	331.08	573.44	662.15	662	60	.0
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	3400.00	27.00	00.00							



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:

Attachment to Notice of

Intention to Workover

Re: Workover

Well: 3 Atlantic A LS

CONDITIONS OF APPROVAL

- 1. If bradenhead remedial cementing work is to be performed, the following intervals should be cemented:
- A. Pictured Cliffs (top @ 2792') -- At a minimum, place a cement plug from 2842' to 2742' plus 100% excess cement in the 7.0" annular space.
- B. Fruitland (top @ 2401') -- At a minimum, place a cement plug from 2451' to 2351' plus 100% excess cement in the 7.0" annular space.
- C. Ojo Alamo (bottom @ 1490', top @ 1409') -- At a minimum, place a cement plug from 1540' to 1359' plus 100% excess cement in the 7.0" annular space.
 - D. Surface casing (set @ 174') -- Perforate at 224' and circulate cement to the surface.