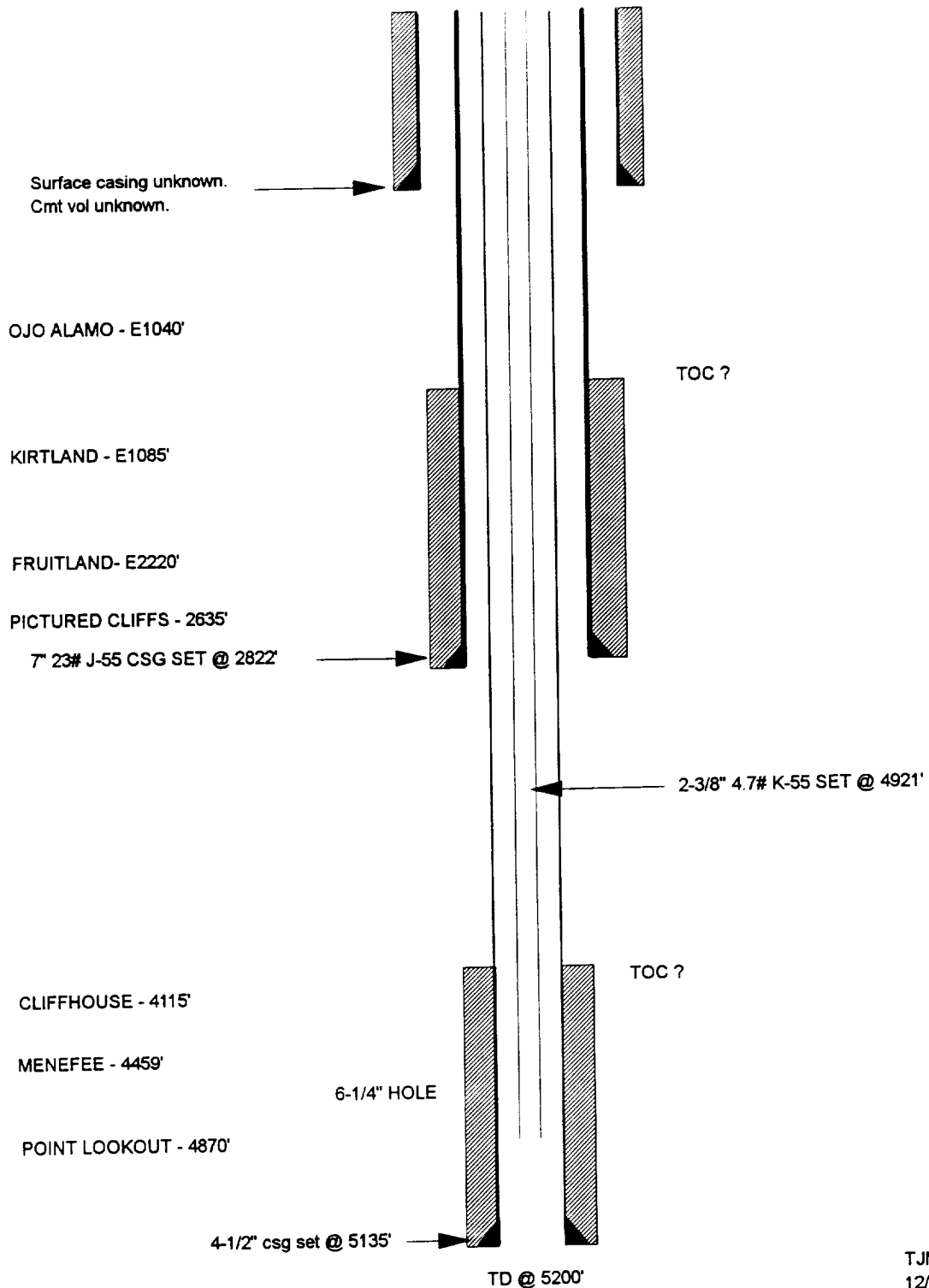


LARCHER #1A
C - SECTION 7, T31N, R10W
SAN JUAN COUNTY, NEW MEXICO

WELLBORE SCHEMATIC



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16. TIH w/ retrieving head on 2-3/8" tbg and retrieve BP @ 4375'. TOH.
17. RU wireline company and selectively perforate the Cliffhouse formation. Perfs are to be picked by the Production Engineer from the Dual Spaced Neutron.
18. PU frac string, 2-7/8" tbg w/ shaved collars, and a full bore packer. TIH and spot acid across the perforations. TOH 150' above top perf and set the packer. Load the backside and pressure test to 500#.
19. RU stimulation company and fracture stimulate the Cliffhouse with a procedure provided by the Production Engineer. MAX PRESSURE = 4500#. Monitor the backside throughout the job.
20. TOH with frac string and TIH with retrieving head on 2-3/8" tbg and CO to RBP @ 4375'. When well is clean take a final pitot gauge and latch onto the RBP and TOH.
21. TIH w/ 2-3/8" tbg w/ seating nipple one joint above the expendable check that is on the bottom. CO to TD = 5200'. When wellbore is sufficiently clean, land tbg @ 4921'.
22. ND BOP and NU wellhead. Pump check valve. Take final pitot gauge.
23. Release rig.
24. Call wireline company to run an After Frac Gamma-Ray log.

Approve: 
Drilling Superintendent

Recommend: 
Regional Engineer

Vendors:

Wireline:	Schlumberger	325-5006
Packers/Tools	Schlumberger	325-5006
Cement/Stimulation:	Western	327-6222
Freepoint/Chemical cuts:	Wireline Specialties	327-7141

Contacts:

Production Engineer	Todd J. Mushovic	326-9584(W) 324-0692(H)
Frac Consultant	Mark Byars	320-0349(M) 327-0096(H) 327-8470(Pager)

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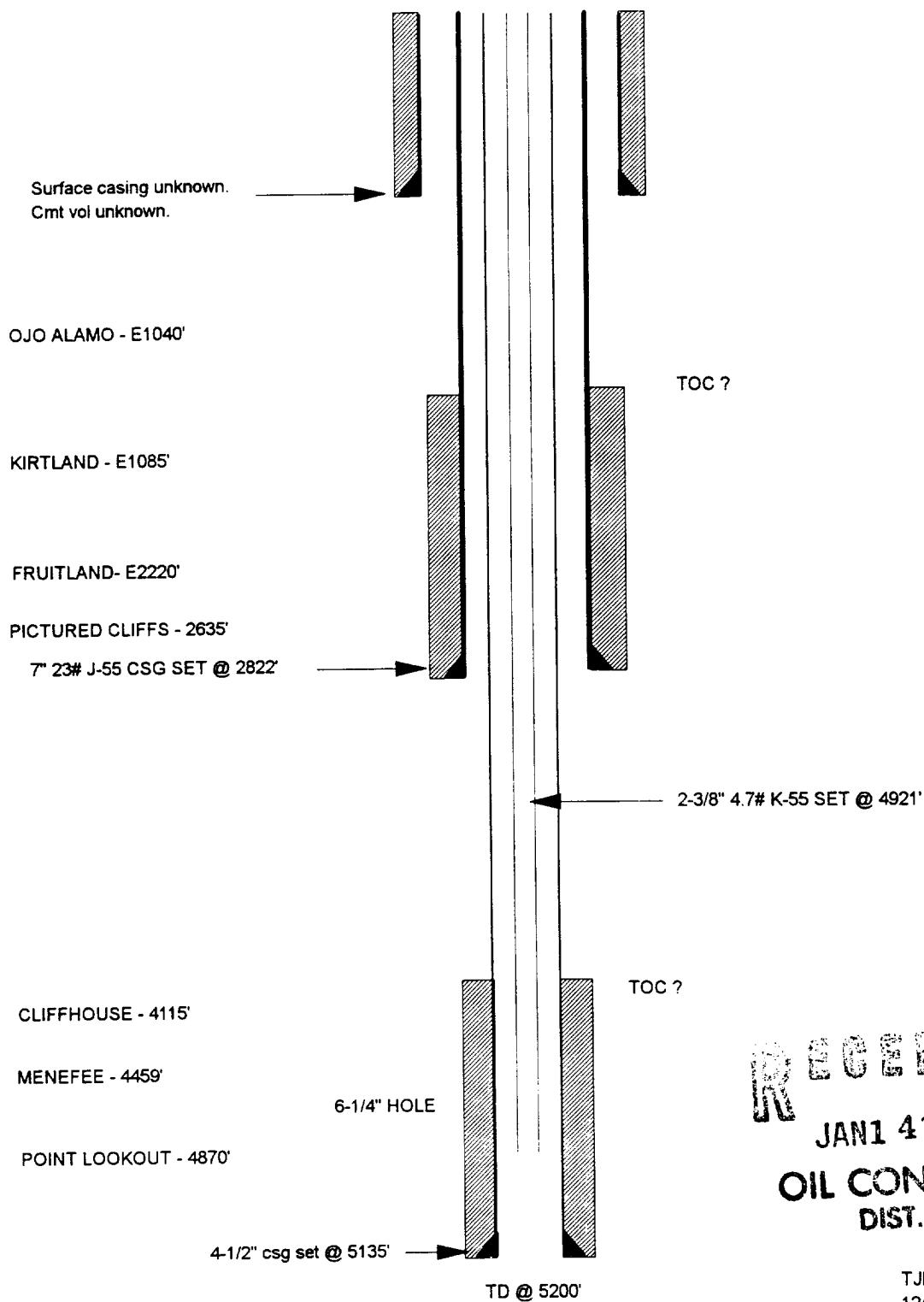
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SECTION 7 T31N R10W
Completion Procedure

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1. Comply with all BLM, MOI & NMOCD rules & regulations. MOL and RU completion rig. NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. Replace all bad valves on the wellhead.
2. Take a pitot gauge. TOH w/ 2-3/8" 4.7#, K-55 Tbg set @ 4921'.
3. TIH w/ 4-1/2" csg scraper on 2-3/8" tbg. TOH. Set a retrievable bridge plug @ 4375'. Dump a sx of sand on top of the RBP. Load the well with 85 bbls of water and pressure test csg to 1000 psi.
4. Load hole with water. RU wireline company and run a CBL from 4375' to TOC & a Dual Spaced Neutron from 4375' to 2700', tie into the attached log. The only log for this well is attached. No 5" scale. Make sure a copy gets to the Production Engineer as soon as logging is completed.
5. RU Wireline Specialties Inc. Run a freepoint and chemical cut the 4-1/2" csg. Do not cut any lower than 2800'. Make sure not to cut over a collar. RD Wireline Specialties Inc.
6. TOH laying down the 4-1/2" csg; replacing the bad joints.
7. TIH w/ 7" csg scraper on 2-3/8" tbg. Set a 7" bridge plug @ 2790' or 10' above 4-1/2" casing stub. Dump a sx of sand on top of RBP. Load the well with 110 bbls. of water. Pressure test the csg. to 1000 psi.
8. RU wireline company and run CBL-CCL-GR from 2790' - Surface.
9. Perf 2 SQ holes 50' above the TOC. TIH w/ 2-3/8" tbg. and fullbore pkr and squeeze the perf holes w/ 100% excess cmt open at surface. Circ 5 bbls of good cmt out of the bradenhead valve and then shut in valve and squeeze remaining cmt away. Over displace the cmt out of the 2-3/8" tbg by 3 bbls. Release packer and pull 2 stands. Reset packer and repressurize the squeeze. Hold pressure on cmt for 4 hrs then open at surface and check for flow. Shut well in until flow ceases. TOH w/ packer.
10. WOC for 12 hrs before drilling out. Pressure test squeeze to 500 psi. Resqueeze as necessary.
11. TIH w/ 2-3/8" tbg. and a retrieving head & PU the 7" RBP @ 2790'.
12. TIH w/ a skirted concave mill on 2-3/8" tbg. and dress off the top of the 4-1/2" csg w/ water if well will hold a column, otherwise mill off w/ air.
13. TIH w/ a Bowen 4-1/2" lead casing patch and 4-1/2" 10.5# K-55 csg. Pump 100 bbls of water prior to engaging patch to insure well remains dead during nipple up. Engage the 4-1/2" csg. stub & pressure test the csg to 1000 psi. Set csg slips, cut off csg and NU BOP.
14. If TOC is not above 2822 then perf 2 SQ hole 50' above the TOC. TIH w/ 2-3/8" tbg. and a full bore packer and squeeze the perf holes with sufficient amount of cement to overlap the 7" csg by 500'. Release packer, pull two stands, reset packer and repressurize squeeze. Check for flow after 4 hours. Release packer & TOH. Run a Temp. Survey after 8 hours to verify the TOC.
15. WOC for 12 hrs then drill out cmt. Pressure test the squeeze to 1000 psi.

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SECTION 7, T31N, R10W
SAN JUAN COUNTY, NEW MEXICO

WELLBORE SCHEMATIC



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Pertinent Data Sheet - Larcher #1A

Location: Sec. 7 T- 31N R-10W County: San Juan, New Mexico

Field: Blanco Mesaverde **Elevation:** GL: 5882' **TD:** 5200'

Spud Date: 12-12-75

Initial Potential: 10,474 MCF/D 778 PSIG = SICP

Casing/Liner Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>TOC</u>
	Unknown		Unknown		
	7"	23#	J-55	2822'	535 cuft
	4-1/2"			5135'	

Tubing Record:

<u>Tubing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>
2-3/8"	4.7# K-55	4921'

Formation Tops:

Ojo Alamo	E1040'
Kirtland	E1085'
Fruitland	E2220'
Pictured Cliffs	2635'
Lewis	2726'
Cliffhouse	4115'
Menefee	4459'
Point Lookout	4870'

Logging Record: Gamma-Ray, Neutron

Stimulation:

Perfed from 4385'-4748' w/ 1 SPf. Fraced w/ 40,000# of snd and 1190 bbls of wtr.
Perfed from 4820'-4906' w/ 1 SPf. Fraced w/ 50,000# of snd and 1448 bbls of wtr.

Workover History: 6-2-78 Pulled tbg because of paraffin.

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State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

1. Type of Well GAS	API # (assigned by OCD)
<hr/>	
2. Name of Operator MERIDIAN OIL	5. Lease Number Fee
<hr/>	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	6. State Oil&Gas Lease Fee
<hr/>	
4. Location of Well, Footage, Sec., T, R, M 1044'FNL, 1847'FWL Sec.7, T-31-N, R-10-W, NMPM, San Juan County	7. Lease Name/Unit Name Larcher
<hr/>	
	8. Well No. 1A
	9. Pool Name or Wildcat Blanco Mesa Verde
	10. Elevation:

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment


Type of Action

<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injectio
<input checked="" type="checkbox"/> Other - pay add	

13. Describe Proposed or Completed Operations

It is intended to repair the casing and shut off the flow of water out the bradenhead valve. It is also intended to add additional pay in the Mesa Verde. Attached is a procedure and wellbore diagram.

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DIST. 3

SIGNATURE  (TJM) Regulatory Affairs January 9, 1994

(This space for State Use)
Approved by Original Signed by CHARLES GHOLSOM

TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date JAN 14 1994