

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
Santa Fe, New Mexico 87504-2088

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

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

WELL API NO. 30-045-09630
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HELEN HARTMAN
8. Well No. 1
9. Pool name or Wildcat BLANCO MESA VERDE
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5571 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 GAS WELL OTHER

2. Name of Operator
ROBERT L. BAYLESS

3. Address of Operator
PO BOX 168 FARMINGTON, NM 87499

4. Well Location
Unit Letter P : 1190 Feet From The SOUTH Line and 1190 Feet From The EAST Line

Section 8 Township 30N Range 11W NMPM SAN JUAN County

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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <u>MESA VERDE RECOMPLETION</u> <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.

SEE ATTACHED RECOMPLETION REPORT.

RECEIVED
JAN 16 1998
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 Kevin H. McCord TITLE PETROLEUM ENGINEER DATE 1/16/98

TYPE OR PRINT NAME: KEVIN H. MCCORD TELEPHONE NO. 326-2659

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE JAN 16 1998

CONDITIONS OF APPROVAL, IF ANY:

ROBERT L. BAYLESS
HELEN HARTMAN #1
1190 FSL & 1190 FEL
SESE, SECTION 8, T30N R11W
SAN JUAN COUNTY, NEW MEXICO

MESA VERDE RECOMPLETION REPORT

1/6/98 Moved in and rigged up Aztec Well Service rig # 157. Blew down well. Killed well with 80 barrels of water. Nipple down wellhead. Nipple up BOP. Tagged fill in well at 6635 ft RKB (2 feet of rathole below bottom Dakota formation perforation). Tripped 202 jts of 1 ½ " 2.75 #/ft J55 NUE tubing out of hole, laying down on float. Shut down for the night.

1/7/98 Rigged up Bluejet wireline. Ran gauge ring on wireline through bottom DV tool at 4570 ft. Set 4 ½ " Halliburton "P" type bridgeplug at 4560 ft (10 ft above bottom DV tool), sealing off Dakota perforations. Pick up 2 3/8" 4.7 #/ft J55 EUE new tubing and run in hole to 4528 ft. Fill hole with 1% KCL water. Pressure tested casing and bridgeplug to 1500 psi, held OK. Tripped tubing out of hole. Run GR-CLL-CBL from 4560 ft to 3500 ft under 1000 psi pressure. The Cement bond looks OK across the Mesa Verde perforation interval. Perforated the Point Lookout interval with 2 JSPF using 3 1/8" casing guns as follows:

4290 - 4302	12 ft	25 holes
4318 - 4336	18 ft	37 holes
4341 - 4349	8 ft	17 holes
4354 - 4360	6 ft	13 holes
4378 - 4380	2 ft	5 holes
4395 - 4398	3 ft	7 holes
4419 - 4424	5 ft	11 holes
4477 - 4480	3 ft	7 holes
Total	57 ft	122 holes

Pick up retrievable packer on tubing and trip in hole to 4480 ft. Shut down for the night.

1/8/98 Rigged up Halliburton Services. Spotted 250 gal of 7 1/2% HCL acid across the Point Lookout perforation interval. Moved tubing and set packer at 4186 ft RKB. Broke down perforations immediately down the tubing. Established an injection rate of 4.0 BPM @ 1130 psi, ISIP = 100 psi (.46 frac gradient). Acidized Point Lookout interval with 500 gal of 7 1/2% DI weighted HCL acid containing 183 1.1 sg RCN ball sealers, 4.0 BPM @ 900 psi, ISIP = 600 psi. Saw very good ball action, but did not balloff. Released packer and tripped below perforations to knock ball sealers off perforations. Trip tubing and packer out of hole. Fracture stimulated the Point Lookout interval with 120,000 gallons of slickwater containing 116, 250 lbs of 20/40 Arizona sand proppant as follows:

32,000 gal pad	41 BPM @ 950 psi
6,000 gal of 0.5 ppg 20/40 sand	42 BPM @ 650 psi
32,000 gal of 1.0 ppg 20/40 sand	47 BPM @ 800 psi
37,500 gal of 1.5 ppg 20/40 sand	46 BPM @ 850 psi
12,500 gal of 2.0 ppg 20/40 sand	45 BPM @ 925 psi
2,900 gal flush	45 BPM @ 950 psi

Shutin pressure was 500 psi, decreasing to 80 psi after 15 minutes. All water contained 1% KCL and 1/2 gal/1000 clay stabilization agent. Average rate 44 BPM, average pressure 850 psi, maximum pressure 1000 psi, minimum pressure 600 psi. Total fluid to recover is 3,053 bbls. Rigged up Bluejet wireline. Set 4 1/2" drillable "P" type bridgeplug at 4280. Pressure tested casing and plug to 1500 psi, held OK. Perforated Menefee interval as follows:

3997 - 4003	6 ft	13 holes
4021 - 4031	10 ft	21 holes
4102 - 4106	4 ft	9 holes
4128 - 4132	4 ft	9 holes
4166 - 4170	4 ft	9 holes
4173 - 4179	6 ft	13 holes
4214 - 4217	3 ft	7 holes
Total	37 ft	81 holes

Trip in hole with packer on tubing. Moved packer to 4217 ft. Spotted 250 gallons of 7 1/2% DI HCL acid across Menefee perforation interval. Moved tubing and set packer at 3903 ft. Broke down Menefee perforations immediately down the tubing. Established an injection rate of 4.0 BPM @ 1350 psi, ISIP = 450 psi (.54 frac gradient). Acidized Menefee interval with 500 gal of 7 1/2% DI weighted HCL acid containing 122 1.1 sg RCN ball sealers. Saw some ball action, but did not balloff. After acid and balls were flushed past perforations, pumped at 4.0 BPM @ 2100 psi, ISIP = 1250 psi. Bled down pressure and pumped in again at 4.0 BPM @ 1450 psi. Released packer and tripped below perforations to knock ball sealers off perforations. Trip tubing and packer out of hole. Attempted to fracture stimulate the Menefee interval down the casing. Reached maximum pressure limitation at low pump rate soon after pumping started, pumping 5.0 BPM @ 1250 psi, ISIP = 1100 psi. Released Haliburton frac crew. Shut down for the night.

- 1/9/98 Trip in hole with bit on 2 3/8" tubing. Drilled out bridge plug at 4280 ft using nitrogen foam to circulate. Tripped in hole and tagged fill at 4467 ft. Cleaned out 93 ft of sand fill and drilled bridge plug at 4560 ft. Tripped in hole and tagged fill at 6568 ft. Cleaned out 67 ft of sand fill to hard PBTD at 6635 ft. Well was flowing very hard throughout cleanout (aided by nitrogen). Recovered approximately 300 barrels of water during cleanout. Pull 10 stands of tubing. Shut down for the weekend.
- 1/10/98 Shut down for the weekend.
- 1/11/98 Shut down for the weekend.

1/12/98 Well had 850 psi on annulus and 0 psi on tubing (due to string float in tubing string). Blow down well and pump water in well to keep well killed. Trip tubing in hole and tag sand fill at 6601 ft. Trip tubing and bit out of hole. Trip in hole with pump bailer on tubing. Tag fill at 6584 ft. Worked sand pump and cleaned out 7 ft of fill to 6591 ft and pump bailer stopped working. Trip tubing and pump bailer 10 stands above Mesa Verde perforations and shutdown for the night.

1/13/98 Well had 700 psi on the annulus. Blow well down and kill well. Trip tubing and pump bailer out of hole. Trip in hole with new pump bailer on tubing with notched collar on bottom. Tagged sand fill at 6576 ft (15 feet higher than cleaned out yesterday). Worked pump bailer but could not clean out sand. Pump 40 barrels of water down tubing to help bailer. Cleaned out 4 ft of sand to 6580 ft and pump bailer stopped working. Tripped out of hole with tubing and pump bailer. Trip in hole to 4000 ft with notched collar on tubing. Shut down for the night.

1/14/98 Well had 500 psi on the annulus. Blow well down. Trip remainder of tubing in hole and tagged sand fill at 6576 ft. Rigged up Halliburton nitrogen. Cleaned out 62 ft of sand fill to 6638 ft with nitrogen. Tubing got stuck in hole after cleaned out to bottom. Worked remainder of day trying to free stuck tubing with no results. Left annulus flowing to flow tank. Shut down for the night.

1/15/98 Rigged up Wireline Specialties. Ran freepoint and found tubing stuck at 6550 ft RKB. Used chemical cutter to cut off tubing at 6532 ft RKB. Left approximately 100 ft of fish in hole. Top of fish at 6532 ft RKB (Dakota perforations 6591-6604 and 6629-6633 covered by fish and sand). Trip tubing out of hole. Trip in hole with tubing and landed in Point Lookout interval as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	11.50	0 - 12
140 jts of 2 3/8" 4.7#/ft J55		
EUE new tubing	4424.05	12 - 4436
1 seating nipple	1.08	4436 - 4437
1 jt of 2 3/8" new tubing with notched collar	<u>31.63</u>	4437 - 4468
	4468.26	

Nipple down BOP. Nipple up wellhead. Opened well to flow to the flow tank. Left well flowing to cleanup. Released rig. Job complete.