

ROBERT L. BAYLESS

P. O. BOX 168 OIL CONSERVATION DIVISION
FARMINGTON, NM 87499 RECEIVED

FAX NO
(505) 326-6911

'91 MAR 5 AM 9 17

OFFICE NO
(505) 326-2659

March 4, 1991

CERTIFIED MAIL
#P 117 129 350
RETURN RECEIPT REQUESTED

State of New Mexico
Energy, Minerals & Natural Resources Department
New Mexico Oil Conservation Division
310 Old Santa Fe Trail, Room 206
Santa Fe, NM 87503

ATTN: Mr. William J. LeMay, Director

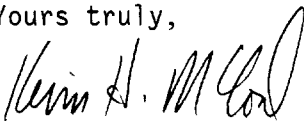
RE: **CASE #10264**
Application of Robert L. Bayless
Tight Formation Designation
Cabresto Area of the Pictured Cliffs Formation
Rio Arriba County, NM

Gentlemen:

Enclosed please find one copy of a formal Application for the referenced Tight Formation Designation, including one copy of all exhibits to be presented at the hearing scheduled on the March 21, 1991 Docket of the New Mexico Oil Conservation Division Examiner Hearing.

Please advise if you require anything further.

Yours truly,



KEVIN H. McCORD
Petroleum Engineer

KHM/eh

xc w/encl: State of New Mexico
Bureau of Land Management
Joseph M. Montoya Building
120 South Federal Place
Santa Fe, NM 87503

Certified #P 117 129 351

State of New Mexico
Office of the Commissioner of Public Lands
State Land Office Building
310 Old Santa Fe Trail, Room 1148
Santa Fe, NM 87503

Certified #P 117 129 352

RECEIVED

MAR 5 1991

OIL CONSERVATION DIVISION

BEFORE THE

OIL CONSERVATION DIVISION

ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

IN THE MATTER OF THE APPLICATION
OF ROBERT L. BAYLESS FOR DESIGNATION
OF TIGHT FORMATION, RIO ARRIBA
COUNTY, NEW MEXICO.

CASE NO. 10264

APPLICATION

Comes Now ROBERT L. BAYLESS, by and through his undersigned attorneys, and as provided in the Oil Conservation Division's Special Rules and Procedures for Tight Formation Designations under Section 107 of the Natural Gas Policy Act of 1978 promulgated by Oil Conservation Division Order No. R-6388 on June 30, 1980, hereby makes application for an order designating certain portions of the Pictured Cliffs formation as a tight formation under Section 107 of the Natural Gas Policy Act of 1978 and in support of its application would show the Division:

1. Applicant is the owner and operator of certain interests in the Pictured Cliffs formation underlying the following described lands situated in Rio Arriba County, New Mexico:

Township 29 North, Range 2 West, N.M.P.M. - All

Township 29 North, Range 3 West, N.M.P.M. - All

Township 29 North, Range 4 West, N.M.P.M. - All

Township 30 North, Range 2 West, N.M.P.M. - All

Township 30 North, Range 3 West, N.M.P.M. - All

Township 30 North, Range 4 West, N.M.P.M.

Sections 1 through 2: All

Sections 11 through 14: All

Sections 23 through 26: All

Sections 35 through 36: All

Township 31 North, Range 2 West, N.M.P.M.

Sections 2 through 36: All

Township 31 North, Range 3 West, N.M.P.M. - All

Township 32 North, Range 2 West, N.M.P.M.

Sections 7 through 10: All

Sections 15 through 22: All

Sections 27 through 35: All

Township 32 North, Range 3 West, N.M.P.M. - All

Containing a total of 193,090 acres, more or less

2. The Pictured Cliffs formation is expected to have an estimated average in situ gas permeability throughout the pay section of less than 0.1 millidarcy per foot.
3. The average depth of the top of the Pictured Cliffs formation is 3715 feet and the stabilized production rate, against atmospheric pressure, of wells completed for production in said formation, without stimulation, is not expected to exceed 105 mcf of gas per day.
4. No well drilled into the Pictured Cliffs formation in the above-described area is expected to produce, without stimulation, more than five barrels of crude oil per day.
5. A complete set of Exhibits which applicant proposes to offer or introduce at the hearing on this application,

together with a statement of the meaning and purpose of each exhibit, will be filed with the Division and the Minerals Management Service at least fifteen (15) days prior to the hearing date as required by the Oil Conservation Division's Special Rules and Procedures for Tight Sand Formation Designation under Section 107 of the Natural Gas Policy Act of 1978.

WHEREFORE, Applicant prays that this application be set for hearing before a duly appointed examiner of the Oil Conservation Division on March 21, 1991 and that after notice and hearing as required by law, the Division enter its order recommending to the Federal Energy Regulatory Commission that pursuant to 18 CFR, Section 271.701-705, that the Pictured Cliffs formation underlying the above-described land be designated a tight formation, and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

TANSEY, ROSEBROUGH, GERDING
& STROTHER, P.C.

By Tommy Roberts
TOMMY ROBERTS
Attorneys for Applicant
P.O. Box 1020
Farmington, New Mexico 87401
(505) 325-1801

SCHALK DEVELOPMENT CO.
P. O. BOX 25825
ALBUQUERQUE, NEW MEXICO 87125

OIL CONSERVATION DIVISION
RECEIVED
'91 MAR 21 AM 8 57

March 20, 1991

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico

Attention: Mr. William LeMay
Director

Re: Case No. 10264
Application of Robert
L. Bayless for Designation
of the Cabresto Area of the
Pictured Cliffs Formation
as a Tight Formation

Gentlemen:

We have reviewed in detail the Application of Robert L. Bayless for designation of the Cabresto Area of the Pictured Cliffs Formation in Rio Arriba County, New Mexico as a tight formation.

As an operator with a number of wells in the area we are very familiar with the Cabresto Pictured Cliffs formation. Based on that experience we are in full support of the referenced Bayless Application.

Thank you for your consideration.

Yours very truly,

SCHALK DEVELOPMENT CO.
JOHN E. SCHALK, OPERATOR



Steve Schalk
Agent

SS/kd

ROBERT L. BAYLESS

P. O. BOX 168
FARMINGTON, NM 87499

OIL CONSERVATION DIVISION
SANTA FE, NM

FAX NO
(505) 326-6911

10264 10264 10264 10264
OFFICE NO.
(505) 326-2659

March 22, 1991

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

ATTENTION: MR. MICHAEL STOGNER

RE: NMOCD Case No. 10264
March 21, 1991
Additional Data on specific
wells

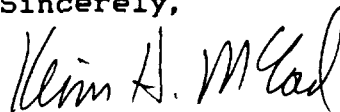
Enclosed please find the data you requested on specific wells within the proposed Robert L. Bayless Cabresto Tight Gas Area, NMOCD Case No. 10264, March 21, 1991. The specific wells you requested data from are as follows:

<u>Well</u>	<u>Location</u>	<u>Operator</u>	<u>Current Gas Prod. Cap. (MCFD)</u>
1. Schalk 29-4 #2	SESE Sec. 32 T29N R4W	John E. Schalk	218
2. Jic. 458 #8	SENE Sec. 7 T30N R3W	Robert L. Bayless	250
3. Jic. 459 #4	NWNE Sec. 19 T30N R3W	Robert L. Bayless	251
4. Jic. 459 #2	SWNW Sec. 20 T30N R3W	Robert L. Bayless	182
5. Jic. 464 #7	NWNW Sec. 29 T30N R3W	Robert L. Bayless	164
6. Jic. 464 #1	NESE Sec. 30 T30N R3W	Robert L. Bayless	262

For each of the above wells, I have provided a P.I. card, a well completion report, and a daily report of operations on the well. The detail fracture stimulation data for each well is highlighted on the daily report for your convenience. For the Schalk well, daily reports were not available, therefore I have presented a Sundry Notice reporting the fracture stimulation of the well.

I believe this data provides all of the information you requested at the hearing. If you have any questions or need anything further, please call.

Sincerely,



Kevin H. McCord
Petroleum Engineer

Enclosures

NEW MEXICO-N
RIO ARRIBA CO.
CHOZA MESA-PIC CLIFFS (DC)



Petroleum Information.

CORPORATION

A Subsidiary of A.C. Petroleum Company

Twp 29n-4w
Section 32
se se
850 fsl 1080 fel

Opr: John E Schalk

Well: 2 Schalk 29-4

Elev: 7329 Gr

Dsts & Cores:

Tops: Log

No cores or tests.

Ojo Alamo 3090
Kirtland 3820
Fruitland 4098
Pic Cliffs 4250

Spud: 12/16/75

Comp: 2/2/76

TD: 4550

PB:

Csg: 8 5/8 @ 150 w/150
4 1/2 @ 4548 w/300

Perf: 4383-4420 w/1 pf

Prod Zone: Pic Cliffs 4383-4420.

Init. Prod: IPF 1254 MCFGPD

Map: NMB-2A

Contr: Arapahoe

API 30-039-21140

NM-N4-675140

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FORM NO. 327

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. USA NM 18328	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESERV. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
2. NAME OF OPERATOR JOHN E. SCHALK		7. UNIT AGREEMENT NAME _____	
3. ADDRESS OF OPERATOR P. O. BOX 26687, ALBUQUERQUE, N.M. 87125		8. FARM OR LEASE NAME SCHALK 29-4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 850' FSL, 1080' FEL, SEC. 32, T-29N, R-4W At top prod. interval reported below At total depth _____		9. WELL NO. 2	
14. PERMIT NO. _____		10. FIELD AND POOL, OR WILDCAT BLANCO P.C.	
DATE ISSUED _____		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 32, T-29N, R-4W	
15. DATE SPUNDED 12-16-75		12. COUNTY OR PARISH RIO ARriba	
16. DATE T.D. REACHED 1-10-76		13. STATE NM	
17. DATE COMPL. (Ready to prod.) 2-2-76		18. ELEVATIONS (DF, REB, RT, OR, ETC.)* 7329'	
19. ELEV. CASINGHEAD 7329'		20. TOTAL DEPTH, MD & TVD 4550	
21. PLUG BACK T.D., MD & TVD -----		22. IF MULTIPLE COMPL., HOW MANY* -----	
23. INTERVALS DRILLED BY -----		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* PICTURED CLIFFS 4383 TO 4420 K B (12')	
25. ROTARY TOOLS X		26. WAS DIRECTIONAL SURVEY MADE NO	
27. WAS WELL CORED NO		28. TYPE ELECTRIC AND OTHER LOGS RUN DUAL INDUCTION-LATERLOG, COMPENSATED NEUTRON FORMATION DENSITY	
29. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8"	23#	150'	11
4-1/2"	10.5#	4548'	7-7/8
CEMENTING RECORD		AMOUNT PULLED	
150 SX CIRCULATED		NO	
300 SX			
30. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
DOES NOT APPLY			
31. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
1-1/2	4385		
32. PERFORATION RECORD (Interval, size and number)			
1 HOLE PER FOOT 4383-4420			
33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
4383-4420		60,000# SAND AND WATER	
34. PRODUCTION			
DATE FIRST PRODUCTION SHUT IN		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOW	
WELL STATUS (Producing or shut-in) SHUT IN			
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD
2-2-76	12	5/16"	-----
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.
567 PSIA	686 PSIA	-----	1900
35. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SHUT IN		TEST WITNESSED BY MAR 23 1976	
36. LIST OF ATTACHMENTS -----			
37. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>John E. Schalk</u>		TITLE OPERATOR	
DATE 3-10-76			

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

USA NM 18328

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Schalk 29-4

9. WELL NO.

2

10. FIELD AND POOL, OR WELLS

Blanco P. C.

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 32: T-29-N, R-4-W

12. COUNTY OR PARISH 13. STATE

Rio Arriba N. M.

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" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR John E. Schalk

4. P.O. Box 26587, Albuquerque, N.M. 87125

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

850' from SL, 1980' from East line

Sec 32, T-29-N, R-4-W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

7329 GR.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

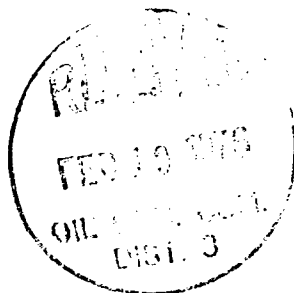
REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

11" hole with 8-5/8 23# casing set at 150'

7-7/8 hole with 4 1/2 10.5# casing set at 4548, set and
cemented on 1-11-76

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Operator

DATE February

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24264
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

WELL: 8 JICARILLA 458

TWP 30N-RGE 3W
SECTION 7
SW SE NW
* 2240FNL 1410FWL SEC
STATUS GAS

SPUD: 09/15/88 COMP: 11/08/88 ELEV: 7086 KB 7074 GR
TD: 4075 (09/27/88) FM/TD: PIC CLIF PBTD: 3925
CONTR: BAYLESS DRLG #5 (R) RIG SUBSTRUCTURE: 12
PROJ DEPTH/FM: 4120 PIC CLIF

COMP 11/8/88, IPF 3510 MCFGPD, 48/64 CK
FTP 212, FCP 620, SITP 1040,
SICP 1040.
CAOF 5135 MCFGPD.

PROD ZONE - PICTURED CLIFFS 3715-3784
(GROSS).

NO CORES OR DSTS

LOC DESCRIPTION: 12 MI NE GOVERNADOR, NM

CASING: 7 5/8 @ 138 W/ 75 SACK
4 1/2 @ 4033 W/ 435 SACK

TUBING: 1 1/2 AT 3758

LOG TYPES: IES CDL CNL
TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB

LOG	OJO ALMO	3138	3948
LOG	KIRTLAND	3375	3711
LOG	FRUITLAND	3400	3686
LOG	PIC CLIF	3710	3376
LOG	TD	4075	3011

AMMANN BASE MAP NM-5

POMCO MAP NM-14

NM2-112888 (CONTINUED)

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FORM NO. 327

CONTINUED NM2- 2 OF 2

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24264
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

WELL: 8 JICARILLA 458

TWP 30N-RGE 3W
SECTION 7
SW SE NW
* 2240FNL 1410FWL SEC
STATUS GAS

PROD TESTS: PIC CLIF PERF W/ 100/IT 3715- 3784 GROSS
PERF 3715- 3729 3734- 3736 3744- 3750 3752- 3763
PERF 3766- 3776 3780- 3784
ACID 3715- 3784 500GALS
7 1/2% HCL 150 BALL SEALS

GAUGE NOT RPTD.
IP: IPF 3510 MCFD 48/64CK
PIC CLIF PERF 3715- 3784 GROSS
TP 212 CP 620 SITP 1040 SICP 1040
CAOF 5135 MCFD

IPF W/LITE MIST.
PROD ZONE: PIC CLIF 3715- 3784 (GROSS)

OPR ADDRESS BAYLESS ROBERT L
PO BOX 168
FARMINGTON, NM 87499-0168

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FORM NO. 327

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other, in
situations on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ 29 NOV 11 PM 12:56

b. TYPE OF COMPLETION:

NEW WELL ☒

WORK OVER ☐

DEEP EN ☐

PLUG BACK ☐

DIFF. CENTER ☐

FARMINGTON RESERVE AREA
FARMINGTON, NEW MEXICO

2. NAME OF OPERATOR

Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2240' FNL & 1410' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

13. STATE

Rio Arriba

NM

15. DATE SPUDDED

9/15/88

16. DATE T.D. REACHED

9/27/88

17. DATE COMPL. (Ready to prod.)

10/31/88

18. ELEVATIONS (DF, RKB, RT, CR, ETC.)*

7086' RKB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4075' KB

21. PLUG, BACK T.D., MD & TVD

3925' KB

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - TD

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Pictured Cliffs 3715 - 3784

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IEL; CDL; CNL; GR-CLL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7 5/8"	26.4#/ft	138' KB	9 7/8"	75 sx (89 ft ³) Class B w/3% CaCl ₂	
4 1/2"	10.5#/ft	4033' KB	6 3/4"	300 sx (618 ft ³) Class B w/2% econolite, 1/4# flocele/sx; 135 sx (70 ft ³) 50/50 pozmix w/2% gel, 10% salt	1/4# flocele/sx

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2"	3758' KB	none

31. PERFORATION RECORD (Interval, size and number)

Pictured Cliffs w/3 1/8" gun - 2 JSPF
3715-3729 - 29 holes
3734-3736 - 5 holes
3744-3750 - 13 holes (.34" diameter)
3752-3763 - 23 holes
3766-3776 - 21 holes
3780-3784 - 9 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3715-3784	500 gal. 7 1/2% DI weighted HCL acid w/150 l.l s.g. RCN ball sealers; 75,000 gal. 70 quality foam w/100,000# 20-40 sand

33. PRODUCTION

915,000 SCF nitrogen

DATE FIRST PRODUCTION

11/9/88

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

flowing

WELL STATUS (Producing or shut-in)

producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/8/88	3	3/4"		-0-	1170	-0-	N/A
FLOW. TUBING PRBS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
212	1040		-0-	3510	-0-	N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

vented

TEST WITNESSED BY

David Ball

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Kevin H. McCord

TITLE

Petroleum Engineer

DATE

11/11/88

*(See Instructions and Space for Additional Data on Reverse Side)

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 458 #8
Section 7, T30N, R3W
2240' FNL & 1410' FWL
Rio Arriba County, New Mexico

DAILY REPORT

09/16/88 Spud well at 7:00 PM on 9/15/88. Drilled 150 ft. of 9 7/8" surface hole. Circulate and condition hole to run surface casing.

09/17/88 Drilling ahead at 460'. Ran 3 jts. of 7 5/8" 26.4#/ft 595 LTC used casing (128.87') and landed at 138' RKB. Rigged up Halliburton. Cemented surface casing with 75 sacks (89 ft³) of Class B cement w/3% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 12:00 noon 9/16/88. Wait on cement 12 hours.

09/18/88 Drilling ahead at 1040'.

09/19/88 Drilling ahead at 1400'.

09/20/88 Drilling ahead at 1750'.

09/21/88 Drilling ahead at 2225'.

09/22/88 Drilling ahead at 2380'.

09/23/88 Drilling ahead at 2885'.

09/24/88 Drilling ahead at 3250'.

09/25/88 Drilling ahead at 3470'.

09/26/88 Drilling ahead at 3820'.

09/27/88 TD well at 4075' at 4:00 AM on 9/27/88. Trip out of hole for logs.

09/28/88 Finish trip out of hole for logs. Logged with Welex. Ran IEL, CDL, CNL from loggers TD of 4073'. Lay down drillpipe and collars. Run 96 jts. of 4 1/2" casing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	9.00	0- 9
95 jts. 4 1/2" 10.5#/ft J-55 new casing (Domestic-Newport)	3978.88	9-3988
1 differential fill float collar	1.70	3988-3990
1 jt. 4 1/2" 10.5#/ft casing	42.05	3990-4032
1 guide shoe	.85	4032-4033
	4032.48	

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

Jicarilla 458 #8

DAILY REPORT

Page 2


09/28/88 (Continued)

Centralizers: 4012, 3822, 3781, 3738, 3697, and 3654. Rigged up Halliburton. Cemented longstring with 300 sx (618 ft³) of Class B cement containing 2% econolite and 1/4# flocele/sx; tailed with 135 sx (170 ft³) of 50/50 pozmix with 2% gel, 10% salt, and 1/4# flocele/sx. Good circulation throughout job. Circulated cement to surface. Bumped plug to 2000 psi--held OK. Plug down at 11:30 PM on 9/27/88. Release rig. Wait on completion.


10/21/88 Rig up Bayless Rig 2. Nipple up wellhead. Nipple up BOP. Unload tubing. Shut down for night.

10/22/88 Pick up 3 7/8" bit and 1 1/2" tubing. Tag cement at 3925' RKB. Shut down for night.

10/23/88 Shut down--Sunday.

 Rigged up the Western Company. Pressure tested casing and wellhead to 3500 psi--held OK. Moved tubing to 3784' RKB. Spotted 250 gallons of 7 1/2% DI HCL acid across perforation interval. Trip tubing out of hole. Rigged up Basin Perforators. Ran GR-CLL from PBSD of 3920' (5' correction) to 3500' RKB. Perforated Pictured Cliffs interval with 3 1/8" casing gun and 2 JSPF as follows:

3715 - 3729	14'	29 holes
3734 - 3736	2'	5 holes
3744 - 3750	6'	13 holes
3752 - 3763	11'	23 holes
3766 - 3776	10'	21 holes
3780 - 3784	4'	9 holes
	47'	100 holes (.34" diameter)

Rigged up the Western Company. Broke down perforations @ 1300 psi. Established injection rate into perforations of 9.0 BPM @ 600 psi, ISIP = 300 psi. Acidized Pictured Cliffs interval with 500 gallons of 7 1/2% DI weighted HCL acid containing 150 1.1 s.g. RCN ball sealers - 8.1 BPM @ 500 psi. Saw very good ball action. Balled off casing to 3500 psi. Surged off balls. Re-established rate into perforations of 8.1 BPM @ 550 psi, ISIP = 300 psi. Ran junk basket in hole on wireline. Recovered 81 ball sealers.  Pictured Cliffs interval with 75,000 gallons of 70 quality foam containing 100,000# of 20-40 sand as follows:


ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

Jicarilla 458 #8

DAILY REPORT

Page 3

 (Continued)

15,000 gal. of 70 quality foam pad	30 BPM @ 2000 psi
20,000 gal. of 1 ppg 20-40 sand	30 BPM @ 2100 psi
40,000 gal. of 2 ppg 20-40 sand	30 BPM @ 2100-2200 psi
2,481 gal. of 70 quality foam flush	30 BPM @ 2100 psi

ISIP = 1600 psi	5 min. = 1500 psi
10 min. = 1475 psi	15 min. = 1450 psi

All water contained 2% KCL and 1/2 gal/1000 clay stabilization agent. Average rate - 30 BPM. Average pressure - 2100 psi. Maximum pressure - 2200 psi. Minimum pressure - 2000 psi. Average nitrogen rate - 14,000 SCF/min. Total nitrogen pumped - 915,000 SCF. Shut well in for 3 hours to allow fracture to heal. Opened well to atmosphere to clean up after frac. Shut down for night.

10/25/88 Well flowing to clean up after frac.

10/26/88 Well flowing to clean up after frac. Well blowing very hard. Sand had eaten out nipple on wellhead and frac valve. Killed well. Replaced nipple and valve. Left well flowing to clean up. Shut down for night.

10/27/88 Well flowing hard. Killed well. Tripped in hole with hydrostatic bailer on tubing. Tagged sand fill at 3765' RKB. Cleaned out 125' of sand with hydrostatic bailer to 3890' RKB. Trip tubing and bailer out of hole (had to kill well several times on trip). Trip in hole with 111 jts. of 1 1/2" tubing and landed well as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	6.00	0- 6
110 jts. 1 1/2" 2.9#/ft J-55 EUE tubing	3717.11	6-3723
1 seating nipple	1.00	3723-3724
1 jt. 1 1/2" 2.9#/ft J-55 EUE tubing	34.09	3724-3758
	3758.20	

Nipple down BOP. Nipple up wellhead. Well kicked off flowing. Left well flowing to clean up for AOF. Released rig.

10/28/88 NOTE: Tubing hanger outside diameter is 7 3/8"--WILL NOT PASS THRU BOP!

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24307
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 19
SE NW NE
* 790FNL 1850FEL SEC
STATUS GAS

WELL: 4 JICARILLA 459

SPUD: 10/28/88 COMP: 01/23/89 ELEV: 7155 KB 7143 GR
TD: 4165 (11/03/88) BHT: 135 F FM/TD: PIC CLIF PBTD: 4088
CONTR: BAYLESS DRLG #5 (R) RIG SUBSTRUCTURE: 12
PROJ DEPTH/FM: 4130 PIC CLIF

COMP 1/23/89, IPF 4378 MCFGPD, 48/64 CK,
FTP 266, FCP 740, SITP 1024,
SICP 1025.

IPCAOF 8256 MCFGPD.
PROD ZONE - PICTURED CLIFFS 3750-3840
(GROSS)

NO CORES OR DSTS

LOC DESCRIPTION: 11 MI NE GOVERNADOR, NM

CASING: 8 5/8 @ 135 W/ 150 SACK

4 1/2 @ 4146 W/ 375 SACK

TUBING: 1 1/2 AT 3782

LOG TYPES: 136- 4157 IES 136- 4157 CNL 136- 4157 FDC
135- 4155 SPCT 135- 4155 DENL 135- 4155 DSN
135- 4155 IES 135- 4155 GRDL

TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB

LOG DJD ALMO 3182 3973
LOG KIRTLAND 3431 3724

AMMANN BASE MAP AM-5

POMCO MAP NM-14

NM7-021389 (CONTINUED)

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FORM NO. 327

CONTINUED NM7- 2 OF 2

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24307
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 19
SE NW NE
* 790FNL 1850FEL SEC
STATUS GAS

WELL: 4 JICARILLA 459

LOG FRUITLND 3700 3455
LOG PIC CLIF 3748 3407
TD 4165 2990

PROD TESTS: PIC CLIF PERF W/ 2/FT 3750- 3840 GROSS
PERF 3750- 3755 3760- 3763 3766- 3792 3794- 3802
PERF 3818- 3823 3837- 3840
ACID 3750- 3840 750GALS
7 1/2% HCl 174 BALL SEALERS

GAUGE NOT RPTD.

IP: IPF 4378 MCFD 48/64CK
PIC CLIF PERF W/ 2/FT 3750- 3840 GROSS
TP 266 CP 740 SITP 1024 SICP 1025 CAOF 8256 MCFD

IPF 4378 MCFGPD W/LITE MIST OF WTR.

PROD ZONE: PIC CLIF 3750- 3840 (GROSS)

OPR ADDRESS BAYLESS ROBERT L

BOX 188
FARMINGTON, NM 87499-0188

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FORM NO. 327

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE.

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/>		1c. DATE ISSUED JAN 26 1989	
2. NAME OF OPERATOR Robert L. Bayless				FARMINGTON RESOURCE AREA FARMINGTON, NEW MEXICO	
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499				5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 459	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 790' FNL & 1850' FEL At top prod. interval reported below same At total depth same				6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Tribe	
14. PERMIT NO.				DATE ISSUED	
15. DATE STUDDED 10/28/88		16. DATE T.D. REACHED 11/2/88		17. DATE COMPL. (Ready to prod.) 1/14/89	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7143' GL 7155' RKB		19. ELEV. CASINGHEAD		10. FIELD AND POOL, OR WILDCAT East Blanco Pictured Cliffs	
20. TOTAL DEPTH, MD & TVD 4165'		21. PLUG BACK T.D., MD & TVD 4088'		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Section 19, T30N, R3W	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS		12. COUNTY OR PARISH Rio Arriba	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Pictured Cliffs 3750' - 3840'		25. WAS DIRECTIONAL SURVEY MADE No		13. STATE NM	
26. TYPE ELECTRIC AND OTHER LOGS RUN IEL-CNL-FDC-GR-CCL		27. WAS WELL CORED No		14. PERMIT NO.	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
8 5/8"		24.0#/ft		135' KB	
4 1/2"		10.5#/ft		4146' KB	
HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
12 1/4"		150 sx (177 ft ³) Class B w/2% CaCl ₂		w/2% CaCl ₂	
6 3/4"		200 sx (412 ft ³) Class B w/2% Econolite, 1/4# flocele/sx; 175 sx (221 ft ³) 50/50 pozmix w/2% gel, 10% salt, 1/4# flocele/s		w/2% Econolite, 1/4# flocele/s	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
1 1/2"		3782' KB		none	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
1 1/2"		3782' KB		none	
31. PERFORATION RECORD (Interval, size and number)					
Pic. Cliffs w/3 1/8" gun - 2 JSPF					
3750-3755 - 11 holes					
3760-3763 - 7 holes					
3766-3792 - 53 holes (.34" diameter)					
3794-3802 - 17 holes					
3813-3823 - 21 holes					
3837-3840 - 7 holes					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
3750 - 3840		750 gal. 7 1/2% weighted HCL acid w/174 l.l s.g. RCN ball sealers; 150,000 gal. 70 quality foam w/200,000# 20-40 sand			
33. PRODUCTION					
DATE FIRST PRODUCTION 1/24/89		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing		WELL STATUS (Producing or shut-in) producing	
DATE OF TEST 1/23/89		HOURS TESTED 3		CHOKE SIZE 3/4"	
PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)	
1/23/89		3		3/4"	
OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)	
266		1025		266	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) vented		TEST WITNESSED BY David Ball		ACCEPTED FOR RECORD	
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED Kevin H. McCord		Petroleum Engineer		DATE 1/25/89	

*(See Instructions and Spaces for Additional Data on Reverse Side)

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #4
Section 19, T30N, R3W
790' FNL & 1850' FEL
Rio Arriba County, New Mexico

DAILY REPORT

- 10/29/88 Spud well at 5:30 PM on 10/28/88. Drilled 138' of 12 1/4" surface hole. Ran 3 jts. of 8 5/8" 24#/ft J-55 casing (122.52 ft.) and landed at 135' RKB. Rigged up Cementers, Inc. Cemented surface with 150 sx of Class B cement with 2% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 11:00 PM on 10/28/88. Wait on cement.
- 10/30/88 Drilling ahead at 1795'.
- 10/31/88 Drilling ahead at 2457'.
- 11/01/88 Drilling ahead at 3327'.
- 11/02/88 Drilling ahead at 3957'.
- 11/03/88 TD well at 4165' at 3:15 PM on 11/2/88. Circulate 1 hour. Short trip. Trip out of hole for logs. Rigged up Welex. Ran IEL-CNL-FDC logs from loggers TD of 4157 ft. RKB. Trip in hole with drillpipe. Lay down drillpipe.
- 11/04/88 Finish laying down drillpipe and collars. Ran 4 1/2" casing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	12.00	0- 12
120 jts. 4 1/2" 10.5#/ft J-55 new casing (Domestic-Maverick)	4088.68	12-4101
1 DFFC	1.60	4101-4102
1 jt. 4 1/2" 10.5#/ft casing	42.60	4102-4145
1 cement filled guide shoe	.85	4145-4146
	4145.73	

Centralizers at 4126, 3848, 3805, 3762, 3720 and 3678. Rigged up Halliburton. Cemented longstring with 200 sx (412 ft³) of Class B cement with 2% Econolite and 1/4# flocele/sx, tailed by 175 sx (221 ft³) of 50/50 pozmix with 2% gel, 10% salt and 1/4# flocele/sx. Good circulation throughout job. Bumped plug. Float held OK. Plug down at 12:30 PM on 11/3/88. Released rig. Wait on completion.

ROBERT L. BAYLESS

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Jicarilla 459 #4

DAILY REPORT

Page 2

1/06/89 Move in Bayless Rig 3 and rig up. Make up wellhead and nipple up BOP. Pick up 124 jts. of 1 1/2" 2.9# J-55 EUE tubing and clean out to PBTD of 4087.94' RKB. Shut and lock rams for pressure test.

Pressure test BOP to 3500 psi--held OK. Roll hole w/2% KCL water. Pull tubing to 3845'. Spot 250 gallons of 7 1/2% DI HCL acid. Trip tubing out of hole. Rig up Basin Well Logging and run GR-CCL from PBTD to 3400'. Perforate Pictured Cliffs interval as follows:

3750 - 3755	5'	11 holes
3760 - 3763	3'	7 holes
3766 - 3792	26'	53 holes
3794 - 3802	8'	17 holes
3813 - 3823	10'	21 holes
3837 - 3840	3'	7 holes
	55'	116 holes (.34" diameter)

Broke down perforations @ 1500 psi. Established an injection rate into perforations of 7.4 BPM @ 400 psi, ISIP = 150 psi. Acidized perforations with 750 gallons of 7 1/2% weighted HCL acid containing 174 1.1 s.g. RCN ball sealers. Pump acid away @ 7.0 BPM. Good ball action. Still pumping 2.0 BPM @ 3400 psi. Surged balls off perforations. Pumped into perfs w/7.0 BPM @ 450 psi. ISIP = 325 psi. Ran junk basket and recovered 9 RCN ball sealers. Pictured Cliffs interval with 150,000 gallons of 70 quality foam containing 200,000# of 20-40 sand as follows:

30,000 gal. of 70 quality foam pad	30 BPM @ 2100 psi
40,000 gal. of 1 ppg 20-40 sand	30 BPM @ 2060 psi
80,000 gal. of 2 ppg 20-40 sand	30 BPM @ 1950 psi
2,504 gal. of 70 quality foam flush	30 BPM @ 2000 psi

ISIP = 1600 psi	5 min. = 1510 psi
10 min. = 1470 psi	15 min. = 1400 psi

All fluid contained 2% KCL and 1/2 gal/1000 clay stabilization agent. Average rate - 30 BPM. Average pressure - 2000 psi. Minimum pressure - 1900 psi. Maximum pressure - 2200 psi. Average nitrogen rate - 14,900 SCF/min. Total nitrogen pumped - 1,815,381 SCF. Total fluid to recover - 1239 bbls. Shut well in for 3 hours. Open well to pit through tapped bull plug to clean up.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
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Jicarilla 459 #4

DAILY REPORT

Page 3

- 1/11/89 Well still cleaning up to pit. Flowing casing pressure at 220 psi through tapped bull plug. Leave well flowing.
- 1/12/89 Well still flowing with 140 psi on casing through tapped bull plug. Open well through 2" line and blow down. Pump 20 bbls. to kill well. Trip in hole with tubing. Tag sand at 3988' RKB (100 ft. of sand fill). Pull tubing to landing point and land tubing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	10.00	0- 10
113 jts. 1 1/2" 2.9#/ft J-55 EUE tubing	3738.90	10-3749
1 seating nipple	.85	3749-3750
1 jt. 1 1/2" 2.9#/ft J-55 EUE tubing	<u>32.05</u>	3750-3782
	3781.80	

Land tubing at 3781.80' RKB. Nipple down BOP and make up wellhead. Bring well around. Leave well flowing to clean up for test. Rig down unit. Move off location.

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24157
FIELD: UNNAMED
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 20
NE SW NW
* 1650FNL 790FWL SEC
STATUS GAS

WELL: 2 JICARILLA 459

SPUD: 11/03/87 COMP: 12/09/87 ELEV: 7164 KB 7162 GR
TD: 4150 (11/10/87) BHT: 132 F FM/TD: PIC CLIF PBTD: 4084
CONTR: BAYLESS R L DRLG #5 (R) RIG SUBSTRUCTURE: 13
PROJ DEPTH/FM: 4160 PIC CLIF

COMP 12/9/87, IPF 3505 MCFGPD, 48/64 CK
FTP 211, FCP 588, SITP 1087,
SICP 1087.

IPCAOF 4735 MCFGPD.

PROD ZONE - PICTURED CLIFFS 3743-3796
(GROSS).

NO CORES OR DSTS.

LOC DESCRIPTION: 1 MI SE UNNAMED FLD (PICTURED CLIFFS)
11 1/4 MI NE GOVERNADOR, NM

CASING: 7 5/8 @ 145 W/ 60 SACK
4 1/2 @ 4144 W/ 200 SACK

TUBING: 1 1/2 AT 3767

LOG TYPES: 3150- 4148 RES 3150- 4148 DENL 3150- 4148 IES
145- 4148 IES 145- 4148 GRDL 3150- 4148 SPCT

AMMANN BASE MAP NM-9

POMCO MAP NM-14

NM9-122387 (CONTINUED)

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FORM NO. 327

CONTINUED NM9- 2 OF 2

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24157
FIELD: UNNAMED
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 20
NE SW NW
* 1650FNL 790FWL SEC
STATUS GAS

WELL: 2 JICARILLA 459

LOG TYPES: 3150- 4148 DENL 3150- 4148 DSN 3550- 4084 GRL
3550- 4084 CCL

TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB

LOG	DJD ALMO	3204	3960
LOG	FRUITLND	3432	3732
LOG	PIC CLIF	3742	3422
	TD	4150	3014

PROD TESTS: PIC CLIF PERF W/ 2/FT 3743- 3796 GROSS
PERF 3743- 3748 3750- 3754 3764- 3772 3778- 3796
ACID 3743- 3796 500GALS
RATE 7.58/MIN ATP 1200 ISP 550
7 1/2% HCL 111 BALLS

GAUGE NOT RPTD

SPTD HOLE W/250 GALS (7 1/2% DI-HCL).

IP: IPF

3505 MCFD

48/64CK

PIC CLIF PERF

3743- 3796 GROSS

TP 211 CP 588 SITP 1087 SICP 1087

CAOF

4735 MCFD

PROD ZONE: PIC CLIF 3743- 3796 (GROSS)
OPR ADDRESS BAYLESS ROBERT L

BOX 168

FARMINGTON, NM 87499

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FORM NO. 327

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		Oil Well <input type="checkbox"/>	Gas Well <input checked="" type="checkbox"/>	Dry <input type="checkbox"/>			
1b. TYPE OF COMPLETION:		New Well <input checked="" type="checkbox"/>	Work Over <input type="checkbox"/>	Deep En. <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Diff. Entry <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR Robert L. Bayless							
3. ADDRESS OF OPERATOR P.O. Box 168, Farmington, NM 87499							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1650' FNL & 790' FWL At top prod. interval reported below same At total depth same							
14. PERMIT NO.				DATE ISSUED			
15. DATE SPUDDED 11/3/87		16. DATE T.D. REACHED 11/10/87		17. DATE COMPL. (Ready to prod.) 11/30/87		18. ELEVATIONS (DF, RNB, RT, GR, ETC.)* 7162' GL; 7174' KB	
20. TOTAL DEPTH, MD & TVD 4150' KB		21. PLUG BACK T.D., MD & TVD 4098' KB		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0 - TD	
24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Pictured Cliffs 3743' - 3796'						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction, Density, Neutron, GR-CLL						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
7-5/8"	26.4#/ft.	145' KB	9-7/8"	60 sx, 71 ft. ³ Class B w/3% CaCl ₂			
4-1/2"	11.6#/ft.	4144' KB	6-3/4"	300 sx, 618 ft. ³ Class B w/2% D-79, 1/4# celoflake/sx; 150 sx, 50/50 pozmix w/2% gel, 10% salt, 1/4# floccle/sx		189 ft.	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1-1/2"	3767' KB	None
31. PERFORATION RECORD (Interval, size and number) Pic. Cliffs w/3-1/8" gun - 2 JSPF: 3743-3748 - 11 holes 3750-3754 - 9 holes (.34" diameter) 3764-3772 - 17 holes 3778-3796 - 37 holes				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				3743-3796	750 gal. 7 1/2% weighted HCL acid w/111 1.1 s.g. RCN ball sealers; 62,500 gal. 70 quality foam w/85,000# 20-40 mesh sand;		
33. PRODUCTION				783,100 SCF nitrogen			
DATE FIRST PRODUCTION None		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Shut-in				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 12/4/87	HOURS TESTED 3	CHOKE SIZE 3/4"	PROD'N. FOR TEST PERIOD →	OIL—BBL. 0	GAS—MCF. 438	WATER—BBL. 0	GAS-OIL RATIO N/A
FLOW. TUBING PRESS. 211	CASING PRESSURE 588	CALCULATED 24-HOUR RATE →	OIL—BBL. 0	GAS—MCF. 3505	WATER—BBL. 0	OIL GRAVITY-API (CORR.) N/A	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented						TEST WITNESSED BY David Ball	
35. LIST OF ATTACHMENTS							

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Kevin H. McCord TITLE Petroleum Engineer DATE 12/9/87

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #2
Sec. 20, T30N, R3W
1650' FNL & 790' FWL
Rio Arriba County, NM

DAILY REPORT

- 11/04/87 Spud well at 9:00 a.m. on 11/03/87. Drill 150 feet of 9 7/8" surface hole. Run three (3) joints of 7 5/8" 26.4 #/ft S-95 LTC used casing (133.38 feet) and land at 145 feet RKB. Rig up Cementers, Inc. Cement surface casing with 60 sacks of Class B cement with 3% CaCl₂ (71 ft³). Good circulation throughout job. Circulate cement to the surface. Plug down at 12:30 p.m. 11/03/87. Wait on cement 8 hours.
- 11/05/87 Drilling ahead at 1802'.
- 11/06/87 Lost one (1) cone in hole on Bit #3, remaining cones looked very good. Trip in hole with magnet. Recover metal shavings and chips, no cone. Trip in hole with Bit #4. Work junk in hole and drilling ahead at 2227'.
- 11/07/87 Bit #4 will not drill properly. Trip out of hole to look at bit #4. Bit #4 has a piece of cone missing. Trip in hole with magnet. Recover lost cone from bit #3 and cone from bit #4. Drilling ahead at 2783'.
- 11/08/87 Drilling ahead at 3429'.
- 11/09/87 Drilling ahead at 3822'.
- 11/10/87 TD well at 4150' at 2:15 a.m. on 11/10/87. Circulate for 3/4 hours. Trip out of hole for logs. Rig up loggers.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #2
Section 20, T30N, R3W
1650' FNL & 790' FWL
Rio Arriba County, New Mexico

DAILY REPORT

11/11/87 Log with Welex. Run 1EL, CDL, and CNL logs. Trip in hole with drillpipe. Lay down drillpipe and collars. Run 4 1/2" casing as follows:

<u>DESCRIPTION</u>	<u>LENGTH</u>	<u>DEPTH</u>
KB to landing point	12.00	0 - 12
96 joints of 4 1/2" 11.6#/ft J-55 LTC Casing	4091.64	12 - 4104
1 - 4 1/2" Differential fill float collar	1.85	4104 - 4105
1 joint of 4 1/2" 11.6#/ft J-55 LTC Casing	37.54	4105 - 4143
1 - 4 1/2" Cement filled guide shoe	.67	4143 - 4144
	4143.70	

Centralizers at: 4124, 3805, 3763, and 3720. Rig up Dowell. Pump five (5) bbls of water ahead of cement. Cement longstring with 300 sacks of class B cement with 2% D-79 and 1/4# celeflake per sack tailed by 150 sacks of 50/50 pozmix with 2% gel, 10% salt, and 1/4# flocele per sack. Good circulation throughout job. Circulate cement to surface. Bump plug to 2000 PSI. Held okay. Plug down at 6:30 p.m. 11/10/87. Rig down, release rig at 12:00 a.m. 11/11/87. Wait on completion.

11/25/87 Move in and rig up Bayless Rig #4. Nipple up wellhead. Nipple up BOP. Picked up 3 7/8" bit and 1 1/2" tubing. Tagged cement at 4098' RKB. Shut down for night.

11/26/87 Shut down for Thanksgiving.

11/27/87 Rigged up the Western Company. Pressure tested casing to 3500 psi--held OK. Circulated hole clean with 2% KCL water. Moved tubing to 3796' RKB. Spotted 250 gallons of 7 1/2% DI HCL acid. Tripped tubing out of hole. Rigged up Basin Perforators. Ran GR-CLL from PBD of 4084' to 3550'.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #2
Section 20, T30N, R3W
1650' FNL & 790' FWL
Rio Arriba County, New Mexico

DAILY REPORT

[REDACTED] (Continued)

Perforated Pictured Cliffs interval with 3 1/8" casing gun and 2 JSPF as follows:

3743-3748	5'	11 holes
3750-3754	4'	9 holes
3764-3772	8'	17 holes
3778-3796	<u>18'</u>	<u>37</u> holes
	35'	74 holes (.34" diameter)

Broke down perforations at 2200 psi. Established an injection rate of 7 1/2 BPM @ 800 psi, ISIP = 500 psi. Acidized the Pictured Cliffs interval with 500 gallons of 7 1/2% weighted HCL acid containing 111 1.1 s.g. RCN ball sealers--7 1/2 BPM @ 650 psi. Saw good ball action. Balled off casing to 3500 psi. Surged off ball sealers. Established injection rate into perforations of 7 1/2 BPM @ 1200 psi, ISIP = 550 psi. Ran junk basket on wireline. Recovered 107 ball sealers. [REDACTED] interval with 62,500 gallons of 70 quality foam containing 85,000# of 20-40 mesh sand as follows:

12,500 gal. of 70 quality foam pad	30 BPM @ 2050 psi
15,000 gal. of 1 ppg 20-40 sand	30 BPM @ 2150 psi
35,000 gal. of 2 ppg 20-40 sand	30 BPM @ 2150 psi
2,437 gal. of foam flush	30 BPM @ 2100 psi

ISIP = 1450 psi	5 min = 1450 psi
10 min = 1450 psi	15 min = 1400 psi

All water contained 2% KCL and 1/2 gal/1000 clay stabilizer. Average rate 30 BPM, average pressure 2150 psi, maximum pressure 2150 psi, minimum pressure 2050 psi, average nitrogen rate 15,200 SCF/min. Total nitrogen pumped 783,100 SCF. Total fluid to recover 559 barrels. Shut in well for 3 hours. Opened well to flow to atmosphere through 1/2" tapped bullplug. Shut down for night.

11/28/87 Well flowing to clean up after frac.

11/29/87 Well flowing to clean up after frac.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 459 #2
Section 20, T30N, R3W
1650' FNL & 790' FWL
Rio Arriba County, New Mexico

DAILY REPORT

11/30/87 Well blowing dry burnable gas. Killed well. Trip in hole with hydrostatic bailer on tubing. Tagged sand fill at 3944'. Cleaned out 95 ft. of sand to 4039' (243' of rathole). Trip tubing and bailer out of hole. Trip in hole with 1 1/2" tubing and landed as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	10.00	0- 10
110 jts. 1 1/2" 2.9#/ft J-55 EUE tubing	3722.04	10-3732
1 seating nipple	.95	3732-3733
1 jt. 1 1/2" 2.9#/ft J-55 EUE tubing	<u>34.25</u>	3733-3767
	3767.24	

Nipple down BOP. Nipple up wellhead. Well kicked off flowing. Left well flowing to the atmosphere to clean up. Released rig.

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24301
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 29
SE NW NW
* 1190FNL 1190FWL SEC
STATUS GAS

WELL: 7 JICARILLA 464

SPUD: 11/26/88 COMP: 02/14/89 ELEV: 7250 KB 7238 GR
TD: 4215 (12/02/88) BHT: 135 F FM/TD: PIC CLIF PBTD: 4116
CONTR: BAYLESS DRLG #5 (R) RIG SUBSTRUCTURE: 12
PROJ DEPTH/FM: 4265 PIC CLIF

COMP 2/14/89, IPF 2428 MCFGPD, 48/64 CK,
FTP 144, FCP 441, SITP 1095,
SICP 1100,
CAOF 2833 MCFGPD.

PROD ZONE - PICTURED CLIFFS 3815-3897
(GROSS).

NO CORES OR DSTS

LOC DESCRIPTION: 11 MI NE GOVERNADOR, NM

CASING: 8 5/8 @ 139 W/ 130 SACK
4 1/2 @ 4176 W/ 375 SACK

TUBING: 1 1/2 AT 3868

LOG TYPES: 139- 4210 DI 139- 4210 GRDL 3200- 4210 CDL
3200- 4210 DSN

TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB

LOG OJO ALMO 3278 3972
LOG KIRTLAND 3518 3732
LOG FRUITLND 3760 3490

AMMANN BASE MAP NM-5

POMCO MAP NM-14

NM7-031389 (CONTINUED)

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FORM NO. 327

CONTINUED NM7- 2 OF 2

STATE: NMEX
COUNTY: RIO ARBA
API: 30-039-24301
FIELD: BLANCO E
WELL CLASS: DG
OPR: BAYLESS ROBERT L

TWP 30N-RGE 3W
SECTION 29
SE NW NW
* 1190FNL 1190FWL SEC
STATUS GAS

WELL: 7 JICARILLA 464

TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB

LOG PIC CLIF 3814 3436
TD 4215 3035

PROD TESTS: PIC CLIF PERF W/ 99/IT 3815- 3897 GROSS
PERF 3815- 3818 3821- 3821 3831- 3841 3843- 3848
PERF 3851- 3858 3868- 3876 3891- 3897
ACID 3815- 3897 500GALS
7 1/2% DI HCL 149 BALL SEALERS

GAUGE NOT RPTD.

IP: IPF 2428 MCFD 48/64CK
PIC CLIF PERF W/ 99/IT 3815- 3897 GROSS
TP 144 CP 441 SITP 1095 SICP 1100 CAOF 2833 MCFD

IPF W/LITE MIST.

PROD ZONE: PIC CLIF 3815- 3897 (GROSS)

OPR ADDRESS BAYLESS ROBERT L
BOX 168
FARMINGTON, NM 87499-0168

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FORM NO. 327

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
Reverse Side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CENER ☐ Other _____

2. NAME OF OPERATOR

Robert L. Bayless

3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1190' FNL & 1190' FWL

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

13. STATE

Rio Arriba

NM

15. DATE SPUDDED

11/26/88

16. DATE T.D. REACHED

12/1/88

17. DATE COMPL. (Ready to prod.)

1/25/89

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

7238' GL

7250' RKB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4215'

21. PLUG BACK T.D., MD & TVD

4116'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - TD

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Pictured Cliffs 3815' - 3897'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IEL-CNL-FDC-GR-CLL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.0#/ft	139' KB	12 1/4"	130 sx (153 ft ³) Class B w/2% CaCl ₂	
4 1/2"	10.5#/ft	4176' KB	7 7/8"	200 sx (412 ft ³) Class B w/2% Econolite	
				1/4# flocele/sx; 175 sx (221 ft ³) 50/50 pozmix w/2% gel, 10% salt, 1/4# flocele/sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2"	3868'	none

31. PERFORATION RECORD (Interval, size and number)

Pic. Cliffs w 3-1/8" gun - 2 JSPF
3815-3818 - 7 holes 3851-3858 - 15 holes
3821-3828 - 15 holes 3868-3876 - 17 holes
3831-3841 - 21 holes 3891-3897 - 13 holes
3843-3848 - 11 holes (.34" diameter)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3815-3897	500 gal. 7½% weighted DI HCL acid w/149 1.1 s.g. RCN ball sealers; 75,000 gal. 70 quality foam w/100,000# 20-40 sand

33. PRODUCTION

873,300 SCF nitrogen

DATE FIRST PRODUCTION 2/17/89 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing WELL STATUS (Producing or shut-in) producing

DATE OF TEST 2/14/89 HOURS TESTED 3 CHOKE SIZE 3/4" PROD'N. FOR TEST PERIOD → OIL—BBL. -0- GAS—MCF. 304 WATER—BBL. -0- GAS-OIL RATIO N/A

FLOW. TUBING PRESS. 144 CASING PRESSURE 1100 CALCULATED 24-HOUR RATE → OIL—BBL. -0- GAS—MCF. 2428 WATER—BBL. -0- OIL GRAVITY-API (CORR.) N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

vented

TEST WITNESSED BY

David Ball

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Robert L. Bayless

TITLE

Operator

DATE

2/22/89

*(See Instructions and Spaces for Additional Data on Reverse Side)

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 464 #7
Section 29, T30N, R3W
1190' FNL & 1190' FWL
Rio Arriba County, New Mexico

DAILY REPORT

- 11/27/88 Spud well at 2:00 PM on 11/26/88. Drilled 145' of 12 1/4" surface hole. Ran 3 jts. (126.48 ft.) of 8 5/8" 24.0#/ft J-55 casing and landed at 139 ft. RKB. Rigged up Cementers, Inc. Cemented surface with 130 sx (153 ft³) Class B cement w/2% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down at 8:00 PM on 11/26/88. Wait on cement.
- 11/28/88 Drilling ahead at 1826'.
- 11/29/88 Drilling ahead at 2686'.
- 11/30/88 Drilling ahead at 3433'.
- 12/01/88 Drilling ahead at 4018'.
- 12/02/88 TD well at 4215' RKB at 4:00 PM on 12/01/88. Short trip. Trip out of hole for logs. Rigged up Welex. Logs stopped at 1247' RKB. Pulled very tight, almost pulled out of rope socket before logging tool came free. Trip in hole with collars and drillpipe. Hit small bridges from 550' to 1700'. Had 11' of fill on bottom. Trip out of hole for logs. Rigged up Welex. Ran IEL, CNL, and FDC logs from loggers TD of 4212'. Finish logging. Start trip in hole.
- 12/03/88 Trip in hole with drillpipe. Lay down drillpipe and collars. Ran 97 jts. of 4 1/2" casing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	12.00	0- 12
97 jts. 4 1/2" 10.5#/ft J-55 new casing (Domestic-Maverick)	4119.13	12-4131
1 DFFC	1.60	4131-4133
1 jt. 4 1/2" 10.5#/ft J-55 new casing	42.27	4133-4175
1 guide shoe	.85	4175-4176
	4175.85	

Centralizers at 4155, 4048, 3963, 3877, 3793, 3707, 3622 and 3536. Rig up Halliburton. Cement longstring casing with 200 sacks (412 ft³) of Class B cement with 2% Econolite and 1/4# flocele/sx; tailed by 175 sacks (221 ft³) of 50/50 pozmix w/2% gel, 10% salt and 1/4# flocele/sx. Good circulation throughout job. Bumped plug--held OK. Plug down at 3:15 PM on 12/02/88. Released rig. Wait on completion.

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

Page 2

Rigged up the Western Company. Pressure tested casing to 3500 psi--held OK. Circulate hole clean with 2% KCL water. Move tubing to 3897' RKB. Spot 250 gallons of 7 1/2% DI HCL acid across perforation interval. Trip tubing out of hole. Rigged up Basin Perforators. Ran GR-CLL from corrected PBTD of 4116' RKB to 3500'. Perforated Pictured Cliffs interval with 3 1/8" casing gun and 2 JSPF as follows:

ISIP	=	1900 psi	10 min.	=	1800 psi
5 min.	=	1850 psi	15 min.	=	1800 psi

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

Jicarilla 464 #7

DAILY REPORT

Page 3

1/20/89 (Continued)

Average rate - 30 BPM. Average pressure - 1850 psi. Maximum pressure - 2050 psi. Minimum pressure - 1700 psi. Average nitrogen rate 14,200 SCF/min. Total nitrogen pumped 873,300 SCF. Total fluid to recover 645 bbls. All water contained 2% KCL and 1/2 gal/1000 clay stabilization agent. Shut well in for 3 hours to allow fracture to heal. Opened well to flow through 1/2" tapped bull plug. Well flowing to clean up after frac.

1/21/89 to 1/22/89 Well flowing to clean up after frac.

1/23/89 Well flowing. Kill well. Trip in hole with 1 1/2" tubing. Tag sand fill at 3895' RKB. Cleaned out 166 ft. of sand to 4061' RKB. Landed 1 1/2" tubing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	10.00	0- 10
116 jts. 1 1/2" 2.9#/ft J-55 EUE new tbg.	3824.87	10-3835
1 seating nipple	.85	3835-3836
1 jt. 1 1/2" 2.9#/ft J-55 EUE tubing	<u>31.95</u>	3836-3868
	3867.67	

Nipple down BOP. Nipple up wellhead. Blow well around. Well flowing from tubing to clean up for AOF. Released rig.

NEW MEXICO

RIO ARRIBA

WILDCAT

(WG)

HOTLINE Energy Reports
A DWIGHT'S ENERGY DATA COMPANY

HISTORICAL DATA

30N - 3W - 30 ne se

1800 fsl 965 fel

Compl: 12/8/86 SI

NM

Oper: BAYLESS, ROBERT L

Well: JICARILLA #464-1

Spud: 10/28/86

TD: 4,136

PB: 4,083

API# 30-039-24088

H# 407601

El: 7,149 KB Form. Test: 4,150 Pictured Cliffs Contr: Bayless #1

Casing: 7 5/8 @ 127 w/48 CF - 4 1/2 @ 4128 w/150

Logs: Ind Neu Dens

Tubing: 1 1/2 @ 3754

Perfs: 3741-3746 3748-3757 3759-3767 3774-3780 3792-3798 3823-3826 (Pictured Cliffs) w/80 holes total - acid w/500 gals 7 1/2%
HCl 120 ball sealers

PZone: Pictured Cliffs 3741-3826

IP: CAOF 10.926 MCFGPD - F 3923 MCFGPD on 3/4 ck; no oil; no wtr rptd; SSCP 1003

CBN 94

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

Jic. Cont. 464
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jic. Apache Tribe
7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jic. 464
9. WELL NO.

#1
10. FIELD AND POOL, OR WILDCAT

Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 30, T30N, R3W
12. COUNTY OR PARISH

Rio Arriba NM
13. STATE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____

2. NAME OF OPERATOR

Robert L. Bayless
3. ADDRESS OF OPERATOR

P.O. Box 168, Farmington, NM 87499
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface
1800' FSL & 965' FEL
At top prod. interval reported below
same
At total depth
same

BUREAU OF LAND MANAGEMENT

14. PERMIT FARMINGTON RESOURCE AREA

15. DATE SPUDDED 10/28/86 16. DATE T.D. REACHED 11/05/86 17. DATE COMPL. (Ready to prod.) 12/01/86 18. ELEVATIONS (DF, RKB, RT, GE, ETC.)* 7136' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4136' RKB 21. PLUG BACK T.D., MD & TVD 4017' RKB 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0 - TD 24. ROTARY TOOLS 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3741 - 3826 P.C. 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Induction - Neutron Density 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7 5/8"	26.4#	127' RKB	9 7/8"	48 ft ³ Class "B" cement w/3% CaCl ₂	
4 1/2"	11.6#	4128' RKB	6 3/4"	150sx(189ft ³) 50/50 pozmix	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1 1/2	3754' RKB	None

31. PERFORATION RECORD (Interval, size and number)

3741 - 3746	3823 - 3826
3748 - 3757	Total 80 holes
3759 - 3767	.34"
3774 - 3780	2 JSPF
3792 - 3798	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3741 - 3826	500 gal 7 1/2% DI HCL weighted acid; 120 RCN ball sealers; 85,000 gal 70 quality foam w/100,000# 20/40 sand

33. PRODUCTION

12/08/86	3	3/4	TEST PERIOD →	-0-	490	-0-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)
308	860	→	-0-	3923	CORD-0-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) vented TEST WITNESSED BY David Ball

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct and that I have examined all available records
SIGNED Kevin H. McLeod TITLE Engineer DATE 02/02/87

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime to knowingly and willfully make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ROBERT L. BAYLESS

PETROLEUM PLAZA BUILDING
P. O. BOX 168
FARMINGTON, NEW MEXICO 87499
(505) 326-2659

JICARILLA 464 #1

Section 30, T30N, R3W
1800' FSL & 965' FEL
Rio Arriba County, NM

- 10-29-86 Spud well at 10:30 p.m. 10/28/86. Drilled 130 ft. of 9-7/8" surface hole. Ran 3 jts. (115') of 7-5/8" 26.43#/ft. S-95 used casing. Landed @ 127' RKB. Rigged up Dowell. Cemented surface casing with 48 ft.³ Class B cement w/3% CaCl₂. Good circulation throughout job. Circulated cement to surface. Plug down @ 3:00 a.m. 10/29/86. Wait on cement.
- 11-05-86 TD @ 4136' RKB @ 2:30 a.m. 11/5/86. Circulate for 1-1/2 hrs. Short trip 10 stands. Had 4 ft. of fill. Circulate 1/2 hr. Trip out of hole for logs.
- 11-06-86 Finish trip out of hole for logs. Rigged up Welex. Ran Induction - Neutron, Density logs from loggers TD of 4134' RKB to surface. Trip in hole with drillpipe. Lay down drillpipe and collars. Ran 4-1/2" casing as follows:

DESCRIPTION	LENGTH	DEPTH
KB to landing point	12.00 ft.	0-12
101 jts. 4-1/2" 11.6#/ft. J55 new casing	4074.88	12-4087
1 - 4-1/2" insert baffle	0.00	4087
1 jt. 4-1/2" shoe joint	40.36	4087-4127
1 - 4-1/2" cement filled guide shoe	1.00	4127-4128
	4128.24 ft.	

centralizers at: 4108, 4007, 3927, 3846, 3765, 3684, 3604, and 3523.

Rigged up Dowell. Cemented 4-1/2" casing with 150 sacks 50/50 pozmix w/2% gel, 10% salt and 1/4# celeflake/sack. Good circulation throughout job. Bumped plug to 1250 psi - held OK. Plug down at 9:30 p.m. 11/5/86. Ran temperature survey - top of cement @ 3000 ft. RKB. Released rig. Waiting on completion.

ROBERT L. BAYLESS
Jicarilla 464 #1
Daily Report
Page 2

11-24-86 Move in and rig up Bayless Rig 6. Nipple up wellhead. Nipple up BOP. Picked up 1-1/2", 29#/ft. EUE tubing. Tagged PBTD @ 4083 ft. RKB. SDFN.

Rigged up the Western Company. Pressure tested casing to 3500 psi; held okay for 5 minutes. Circulated hole clean with 2% KCL water. Moved tubing to 3826 ft. RKB. Spotted 250 gallons of 7-1/2% DI HCL acid. Trip tubing out of hole. Rig up Basin Perforators and ran GR-CLL from log corrected PBTD of 4056 ft. to 3500 ft. Perforated Pictured Cliffs interval with 3-1/8" casing gun and 2JSPF as follows:

3741-3746	5'	11 holes	
3748-3757	9'	19 holes	
3759-3767	8'	17 holes	
3774-3780	6'	13 holes	
3792-3798	6'	13 holes	
3823-3826	3'	7 holes	
	<u>37'</u>	<u>80 holes</u>	.34" diameter

Broke down perforations @ 1400 psi. Established injection rate of 9.0 BPM @ 600 PSI, ISIP=350 psi. Acidized the Pictured Cliffs interval with 500 gallons of 7-1/2% DI HCL weighted acid containing 120 l.l s.g. RCN ball sealers @ 8.1 BPM @ 500 psi. Had two pressure breaks as balls hit perforations. Balled off casing to 3500 psi. Surged balls off perforations. Final injection rate into perfs of 8.0 BPM @ 700 psi, ISIP=400 psi. Ran junk basket to recover ball sealers. Recovered 117 balls. [REDACTED] with 85,000 gallons of 70 quality foam with 100,000# of 20-40 mesh sand as follows:

20,000 gallons of 70 quality foam pad	30 BPM @ 2050 psi
30,000 gallons of 70 quality foam with 1 ppg 20-40	30 BPM @ 2000 psi
35,000 gallons of 70 quality foam with 2 ppg 20-40	30 BPM @ 2000-2100 p
2,435 gallons of foam flush	30 BPM @ 2100 psi

ISIP=1500 psi, 5 min. shutin = 1400 psi
10 min. shutin = 1400 psi
15 min. shutin = 1350 psi

All water contained 2% KCL and 1/2 gallon/1000 clay stabilization agent. Average rate 30 BPM, average pressure 2050 psi, maximum pressure 2100 psi, minimum pressure 2000 psi. Nitrogen injection rate was 15,200 SCF/min., total nitrogen pumped was 1,056,000 SCF. Total fluid pumped was 606 bbls. Shut well in for 3 hours. Open up well to the atmosphere through 1/2" tapped bullplug. SDFN.

Robert L. Bayless
Jicarilla 464 #1
Daily Report
Page 3

11-26-86 Checked well - was flowing very strong. Gas was burnable. Shut in well for ten minutes; built pressure to 1075 psi. Opened well to flow to cleanup.

11-27-86 Well flowing to cleanup.

11-28-86 Well flowing strong through 1/2" tapped bullplug. Opened well to atmosphere through 2" opening. Well had 125 psi flowing pressure through 2" opening. Rigged up the Western Company. Killed well. Tripped in hole with 1-1/2" tubing. Tagged sand fill at 3817' RKB. Well has 266 ft. of sand fill, 2,483 lbs. of sand. Shut well in. SDFN.

11-29-86 Overnight tubing pressure was 725 psi, annulus pressure 900 psi. Opened well to blow down. Cleaned out 200 ft. of sand to 4017' RKB using gas pressure and volume from well. Landed tubing as follows:

<u>DESCRIPTION</u>	<u>LENGTH</u>	<u>DEPTH</u>
KB to landing point	8.00	0-8
110 jts. of 1 1/2" 2.9#/ft. J55 EUE tbg.	3711.06	8-3719
1 seating nipple	.75	3719-3720
1 jt. of 1 1/2" mud anchor	34.05	3720-3754
	<u>3753.86</u>	

Nipple down BOP, nipple up wellhead. Rig down completion unit. Well started flowing through the tubing. Left flowing through 1/2" tapped bullplug to cleanup for AOF. SDFN.

11-30-86 Well flowing.

12-01-86 Well flowing 175 psi through 1/2" tapped bullplug. Shut well in for 7-day buildup for AOF. Initial shutin pressures: tubing 850 psi, annulus 850 psi.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

May 6, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

U.S. Bureau of Land Management
Albuquerque District Office
435 Montano Road, N.E.
Albuquerque, New Mexico 87107

Attention: Allen Buckingham

Re: Division Case No. 10264
Application of Robert L. Bayless for
Designation of a Tight Formation,
Rio Arriba County, New Mexico

Dear Mr. Buckingham:

Pursuant to our telephone conversation yesterday, Monday May 6, 1991, enclosed is a copy of Division Order No. R-9495, issued in said Case No. 10264 and dated May 6, 1991, recommending to the Federal Energy Regulatory Commission that the Pictured Cliffs formation underlying the proposed Cabresto Tight Gas Area in Rio Arriba County, New Mexico be designated as a "tight formation" under Section 107 of the Natural Gas Policy Act of 1978.

Enclosed please find a copy of the March 21, 1991, hearing transcript and copies of Exhibits presented by the applicant.

Should you require additional information, please contact me at (505) 827-5811.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael E. Stogner", written over a horizontal line.

MICHAEL E. STOGNER,
Examiner/Engineer

MES/dr

cc: Case File 10264

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

May 7, 1991

RODEY, DICKASON, SLOAN
AKIN & ROBB, P.A.
Attorneys at Law
P. O. Box 1357
Santa Fe, New Mexico 87504

RE: CASE NO. 10264
ORDER NO. R-9495

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

A handwritten signature in cursive script that reads "Florene Davidson".

Florene Davidson
OC Staff Specialist

FD/sl

cc: BLM Farmington Office
OCD Aztec Office
H. L. Kendrick
Alan Buckingham
William F. Carr
Bill Hawkins

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



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SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 11, 1991

Federal Energy Regulatory Commission
823 N. Capitol Street NE
Washington, D.C. 20426

ATTN: Marilyn Rand, Director
Division of Producer Resolution

Dear Ms. Rand:

I am writing to you to confirm our telephone conversation on Thursday July 11, 1991, it is my understanding that a recommendation from the N.M. Oil Conservation Division on a proposed "Tight Formation" application recently considered by this agency will not be required since all the acreage involved is on Federally controlled lands (193,090 acres total, 30,720 acres Carson National Forest and 162,370 acres Jicarilla Apache Indian Reservation).

Thank you for your assistance in this matter.

Sincerely,

MICHAEL E. STOGNER
Chief Hearing Officer/Engineer

MES/jc

cc: OCD - Aztec
Kevin McCord - Farmington
Robert L. Bayless - Farmington
Tommy Roberts - Farmington
Case File: 10264
U.S. Forest Service - Blanco, NM
U.S. BLM - Albuquerque