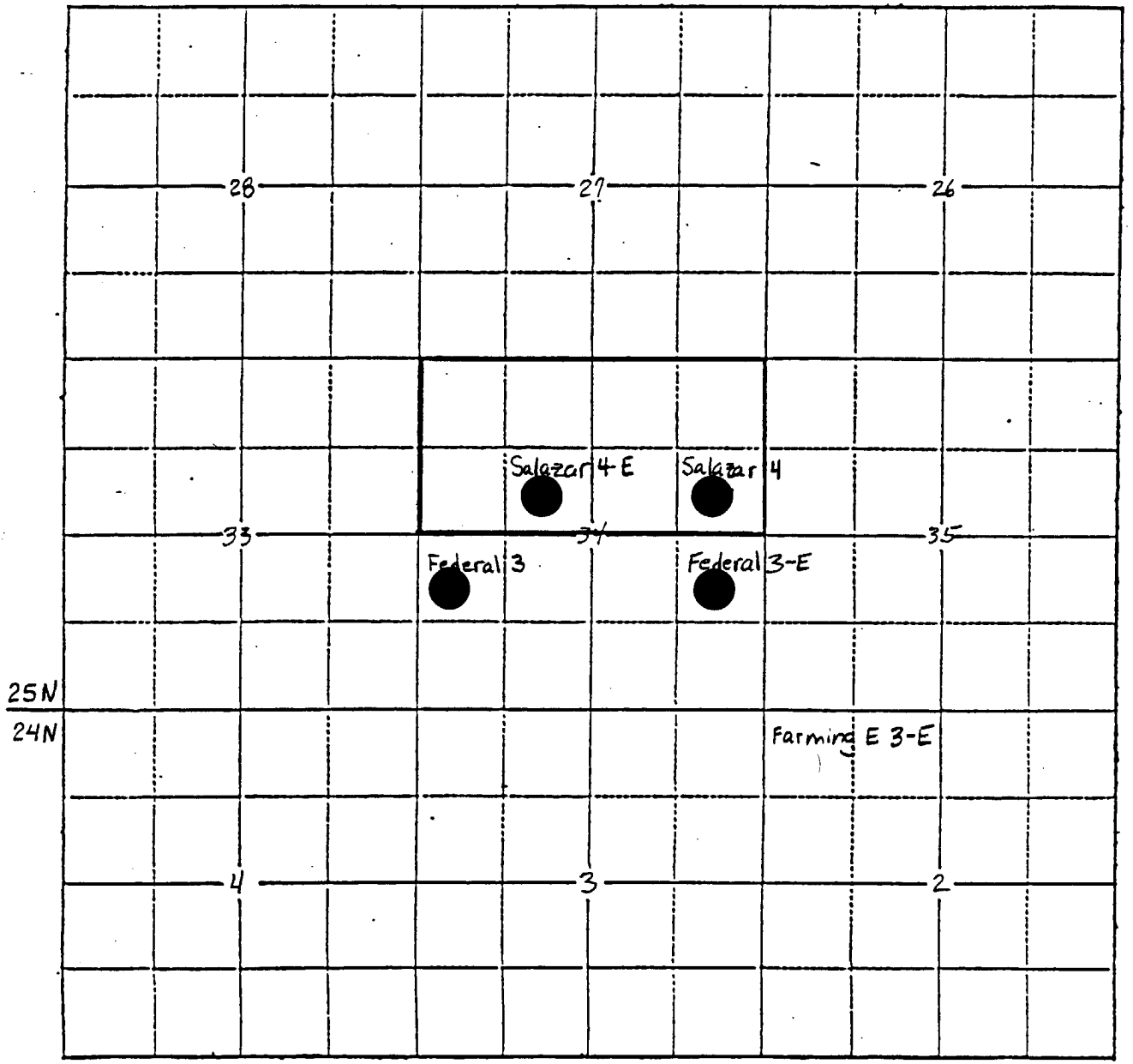
PLAT II
WELLS ANALYZED

Salazar Well 4-E

1630N 1460W section 34

Township 25N, Range 6W, N.M.P. Meridian, Rio Arriba Co.



Basin Dakota Pool

Notes

BEFORE EXAMINER ~~STOGNER~~ CATANACH

Oil Conservation Division

Exhibit No. 4

Case No. 8712

SALAZAR WELL NO. 4-E

The Salazar Well No. 4-E was completed on 2-21-84 with an initial potential of 4984 MCF/day. It began producing on May 12, 1984 and was shut-in in June 1985 being over-produced by more than six times (317,158 MCF). Pressure tests in 1984 and 1985 (SICP = 1337 and 1332, respectively) indicate that this well had not experienced irreversible formation damage as of June of this year. The cumulative production has been 586,993 MCF with an average production rate of 1947 MCF/day and 4.5 BBLS/day (GWR = 2.17 BBLS/MMCF). The complete production table and plot are part of the application. Using a BHP/z vs. Cumulative Production Plot and a Volumetric Analysis of the existing data results in estimated Original Gas-In-Place of 3.95 to 4.45 BCF. Assuming 85% recovery, estimated Recoverable Reserves are 3.35 to 3.78 BCF.

If this well remains shut-in until the over-production is reduced to 0 (estimated to be 12 additional months) damage could occur and reserves would be lost. This well has already been shut-in for the longest time period of the offset wells we examined. Considering that damage has apparently occurred with lost reserves in 3 of these offsets, our conclusion is that the Salazar Well No. 4-E will experience irreversible damage (if it has not already done so) if this total shut-in condition continues for 12 additional months. Based upon our analysis, we feel that this well (and the other wells in this area) should not have even a single month of total shut-in.

SALAZAR WELL NO. 4

This well was completed on 10-23-58 with an initial potential of 2878 MCF/day and was abandoned in 1983 with cumulative production of 1.32 BCF. This well is particularly interesting because it is the first well in the spacing unit to which the 4-E is dedicated as an infill well. One would expect a strong correlation between the production characteristics of the 4 and 4-E. The records available in its early life indicate that this well was allowed to produce a minimum of 1 to 2 days during prolonged shut-in periods with only 2 months of total shut-in prior to 1965. From 1965 to 1982 it had no month with total shut-in. The production decline was sharp, but not irregular. In latter 1981 the well began to log off repeatedly and a swabbing unit was moved in. A swab test indicated that excessive water was coming into the well-bore--probably from a casing leak. The well was open but continually logged off during 1982 and 1983. Production dropped dramatically from an average in 1981 of 40.6 MCF/day to 7.00 MCF/day in 1982 and 1.14 MCF/day in 1983, until the zone was abandoned in March 1983. This well was probably lost because the water could not be effectively removed from the well-bore. A BHP/z vs. Cumulative plot analysis indicates that Gas-In-Place was 1.75 BCF, which results in recoverable reserves of 1.4875 BCF (assuming 85% recovery). The well actually produced 1.3176 BCF. This means that approximately .1699 BCF were lost, or 11.4% of the potentially producible reserves.

PRODUCTION TABLE

WELL NAME Salazar Well No. 4 Operator Records Completion Date 10-23-58

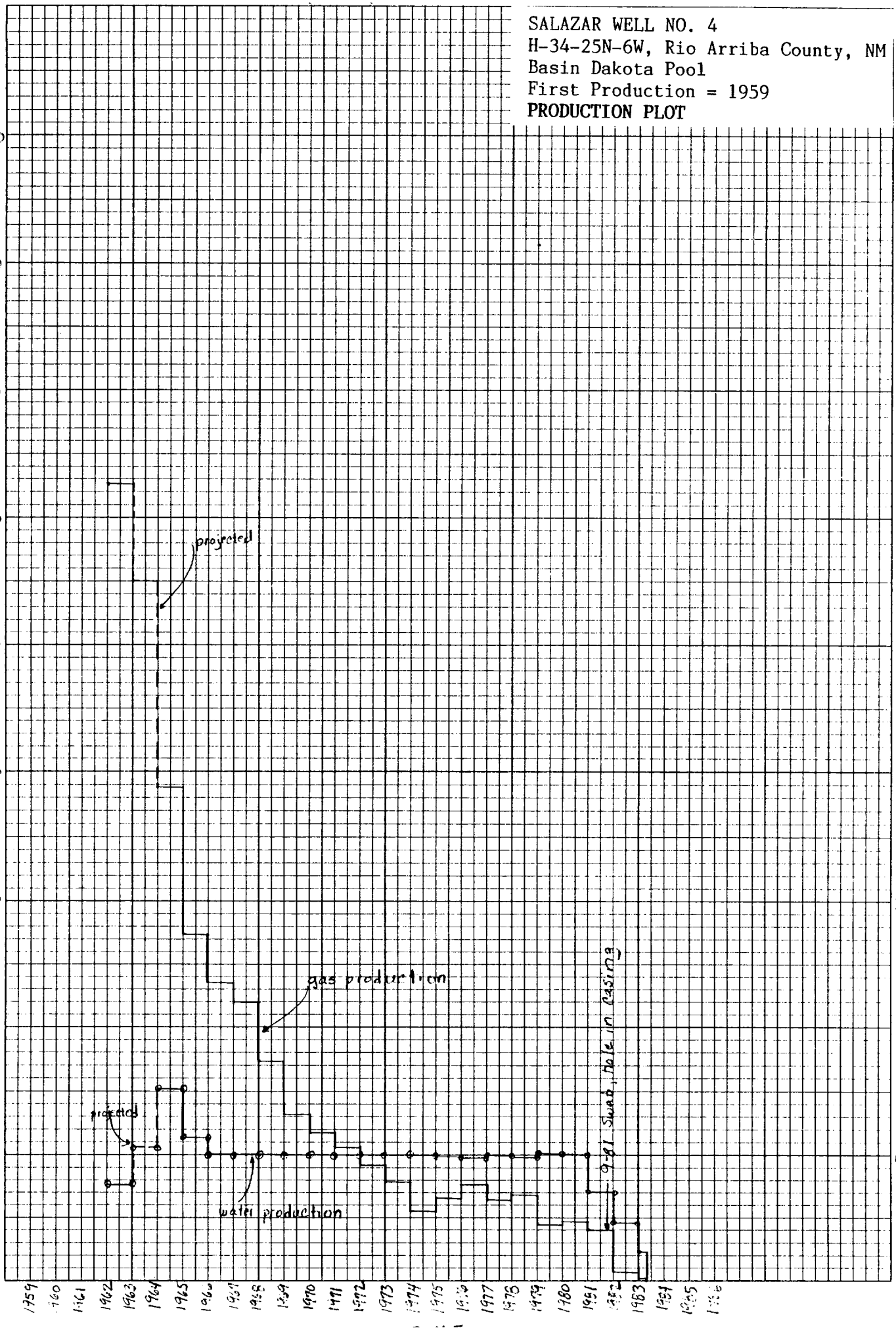
WELL LOCATION H-34-25N-06W Initial Potential 2878 MCF/day

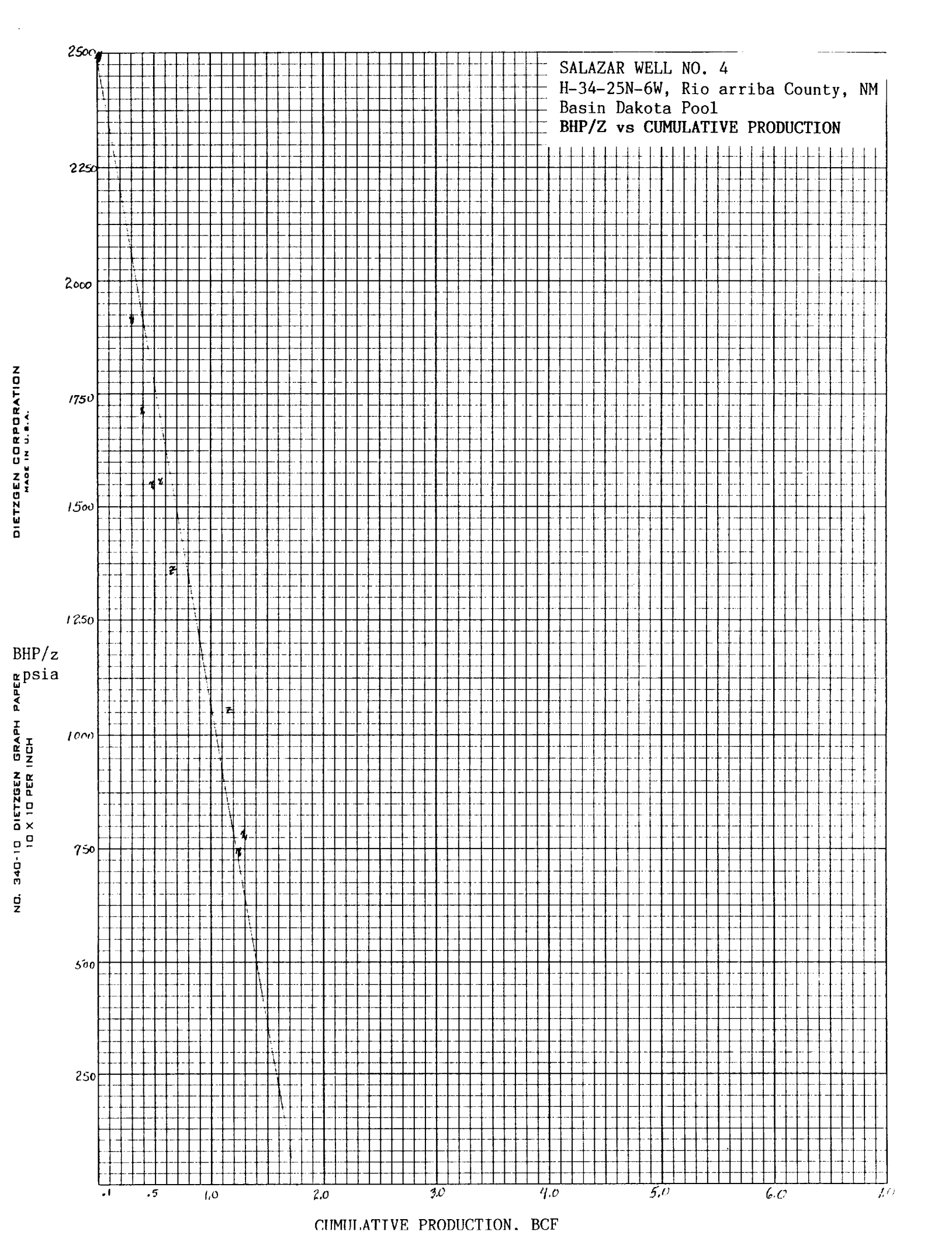
Perfs 6706-22, 6554-6580 Initial Pressure SICP=1860 psia

Initial GOR/Gravity

SICP psia	DATE	PRODUCTION DAYS / SHUT-IN		OIL/H_2O PRODUCTION BBLS		RATE /Day WATER	CUMULATIVE WATER BBLS	GAS PRODUCTION MCF	RATE /Day	CUMULATIVE MCF
1952	1959	*		*		*	*	166,076	*	166,076
1423	1960	*		*		*	*	146,657	*	312,733
1342	1961	*		*		*	*	72,930	*	385,663
1212	1962	154	211		119	0.77	est. 119	96,632	627.48	482,295
1224	1963	*		*		*	*	59,242	*	541,537
1224	1964	286	79		434	1.52	est. 553	108,607	379.74	650,144
1065	1965	343	22	611	388	1.13	941	94,245	274.78	744,389
	1966	333	32		333	1.00	1274	78,868	236.84	823,257
	1967	342	23		342	1.00	1616	75,618	221.10	898,875
	1968	351	14		351	1.00	1967	61,102	174.08	959,977
	1969	359	6		359	1.00	2326	47,275	131.68	1,007,252
	1970	356	9	270	356	1.00	2682	42,348	118.96	1,049,600
	1971	368	0		368	1.00	3050	39,342	106.91	1,088 942
	1972	367	0		367	1.00	3417	33,540	91.39	1,122,482
-15-74	1973	359	6	146	359	1.00	3776	28,568	79.58	1,151,050
827	1974	351	14	114	351	1.00	4127	18,662	53.17	1,169,712
	1975	361	4	33	358	0.99	4485	24,036	66.58	1,193,748
	1976	367	0	105	359	0.98	4844	27,918	76.07	1,221,666
580	1977	344	21	63	343	1.00	5187	21,953	63.82	1,243,619
	1978	365	0	76	348	0.95	5535	25,159	68.93	1,268,778
-29-79 612	1979	335	30	50	346	1.03	5881	15,083	45.02	1,283,861
	1980	364	1	81	369	1.01	6250	17,114	47.02	1,300,975
	1981	348	17	105	250	0.72	6500	14,134	40.61	1,315,109
	1982	345	20	48	164	0.48	6664	2,415	7.00	1,317,524
thru 3-	1983	70	20	183	17	0.24	6681	80	1.14	1,317,604
		*= records missing								

SALAZAR WELL NO. 4
H-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
First Production = 1959
PRODUCTION PLOT




SALAZAR WELL NO. 4
H-34-25N-6W, Rio arriba County, NM
Basin Dakota Pool
BHP/Z vs CUMULATIVE PRODUCTION
2500
2250
2000
1750
1500
1250
1000
750
500
250
BHP/z
psia
.1
.5
1.0
2.0
3.0
4.0
5.0
6.0
CUMULATIVE PRODUCTION, BCF
DIETZGEN CORPORATION
MADE IN U.S.A.
NO. 340-10 DIETZGEN GRAPH PAPER
10 X 10 PER INCH

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079139-A
LEASE OR PERMIT TO PROSPECT .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Kay Kimbell Address 623 Lubbock Natl Bank Bldg.
Lessor or Tract Salazar Federal Field Wildcat State New Mexico
Well No. 1-34 Sec. 34 T. 25N R. 6 Meridian NMPM County Rio Arriba
Location 1650 ft. {N./S.} of N Line and 1090 ft. {E./W.} of E Line of Section 34 Elevation 6365GL
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Jack B. Ballack

Date 11-17-58 Title Engineering Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 29, 1958 Finished drilling October 23, 19 58

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 2168 to 2200 No. 4, from ..... to .....
No. 2, from 6320 to 6422 No. 5, from ..... to .....
No. 3, from 6520 to 6620 No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8 5/8	32		J-55	360	none				surface
5 1/2	17		J-55	372	Halliburton Float		6680	6706	
5 1/2	15 1/2		J-55	6353					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	350	400	pump & plug		
5 1/2	6226	569	pump & plug		

MARK

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from surface feet to 6726TD feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

Ran tubing October 23, 1958

Shut-in for pipeline construction

Put to producing November 3, 19 58

The production for the first 24 hours was ..... barrels of fluid of which .....% was oil; .....% emulsion; .....% water; and .....% sediment.

Gravity, °Bé. .....

If gas well, cu. ft. per 24 hours .....

Gallons gasoline per 1,000 cu. ft. of gas X22

Rock pressure, lbs. per sq. in. 2360 3,192,300

EMPLOYEES

Foree Drilling Company, Driller ..... , Driller

Farmington, New Mexico

..... , Driller ..... , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2168	2168	Surface tertiary, Kirtland& Fruitland sandstones, shales & coals
2168	2280	112	Pictured cliffs, sandstones & shales
2280	3010	730	Lewis shale
3010	3150	140	Chacra sandstones & shales
3150	3720	570	Lewis shale
3720	4618	898	Mesaverde sandstones, shales & coals
4618	5530	912	Mancos shale
5530	6320	790	Mancos shale & sandstone (including Gallup)
6320	6520	200	Greenhorn limestone, graneros, sandstone & shale
6520	6726		Dakota sandstone & shale

(OVER) 16—43094-4

FORMATION RECORD—CONTINUED

FEDERAL WELL NO. 3

The Federal Well No. 3 was completed on 10-26-63 in the $NW\frac{1}{4}SW\frac{1}{4}$ section 34,T.25N.,R.6W., BLUE dot on Plat II, with an initial potential of 6152 MCF/day. This well has shown erratic production since 1981 because of the irregular shut-in periods, but overall has experienced a normal decline. The longest total shut-in period was 4 months in 1983, but in its early life it was never shut-in for more than 1 month. In 1968 this well developed casing leaks and was repaired by squeeze cementing in July. A production packer was installed at 6403 feet to keep the water separated from the Dakota formation if other leaks developed. A decline curve analysis indicates that recovery has not yet been impaired and that the preventative measure of 1968 and the regular production to date have been effective at preventing irreversible water damage to the producing zones. Estimated Gas-In-Place, by BHP/z vs. Cumulative Production analysis, is 8.5 BCF with recoverable reserves of 7.225 BCF (assuming 85% recovery). The decline analysis implies that recoverable production will be about 7.78 BCF. The well has a cumulative production of 4.122 BCF with an average production rate of 533 MCF/day through August 1985.

These analyzes indicate that this well has not lost productive potential despite erratic production since 1981. The regularity of production during prolonged shut-in periods, which has occurred throughout the life of the well and the production packer has prevented permanent formation damage by effective water removal and separation from the formation face. This well demonstrates that regular production, dictated by individual well characteristics, during low-demand periods and water removal from the well-bore prevent irreversible damage and protect the full productive potential, thereby preventing underground waste of reserves, in this portion of the Basin Dakota Pool.

PRODUCTION TABLE

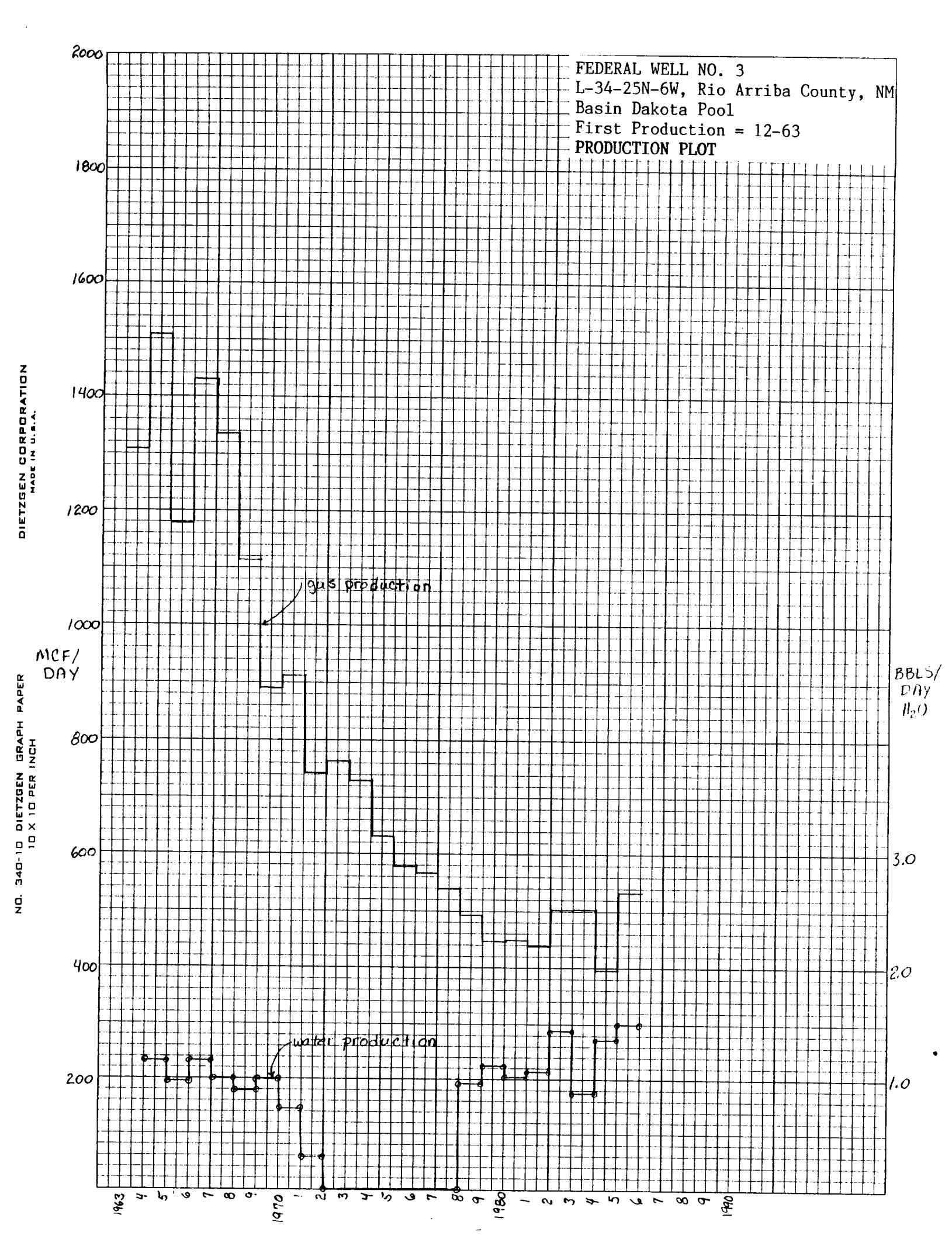
WELL NAME Federal Well No. 3 Operator Records Completion Date 10-26-63

WELL LOCATION L-34-25N-06W Initial Potential 6152 MCF/day

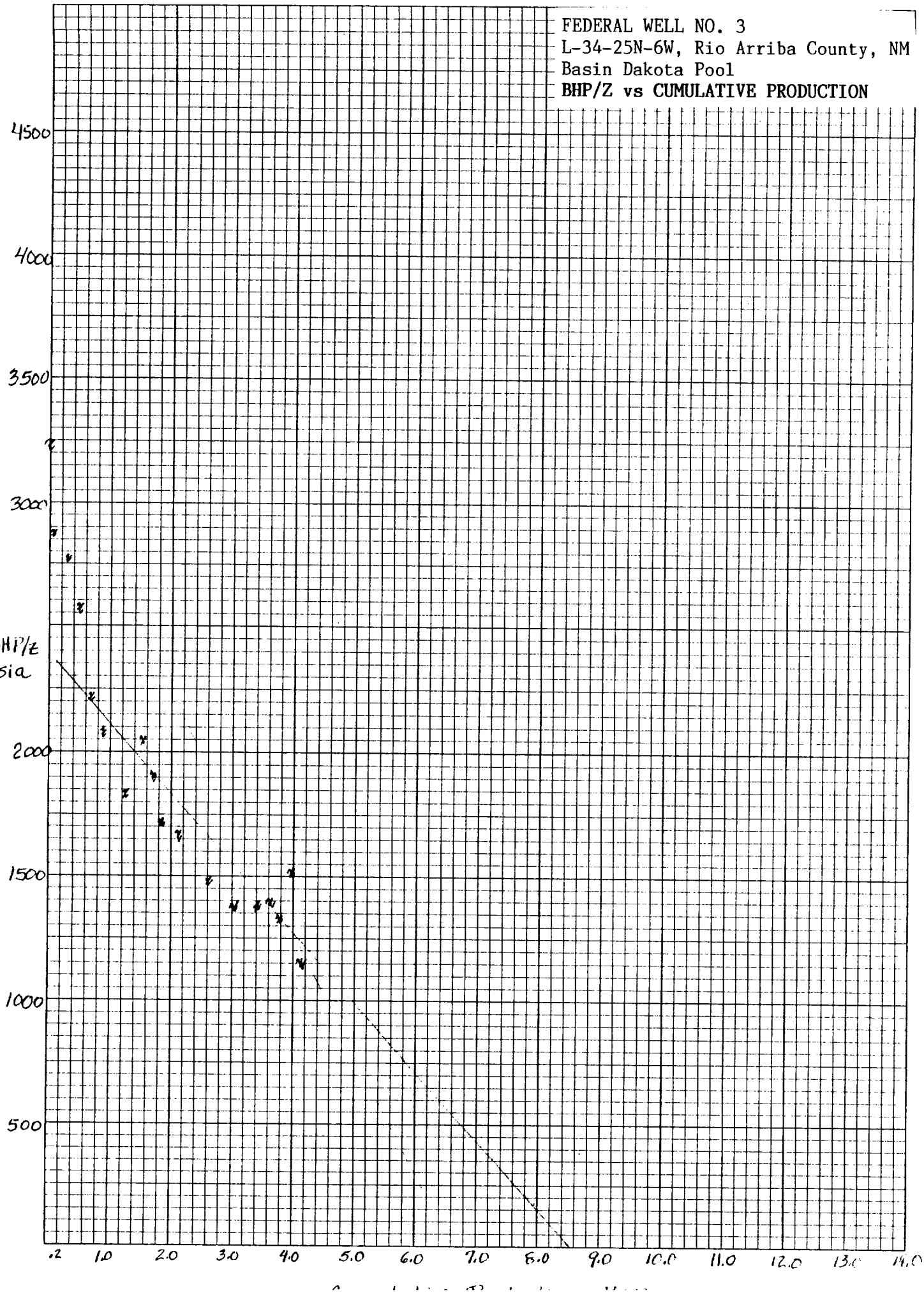
Perfs 6518-6662 Initial Pressure SICP=2317 psia

Initial GOR/Gravity grav=.674

SICP psia	DATE	PRODUCTION DAYS / SHUT-IN		OIL/H_2O PRODUCTION BBLS	RATE /Day WATER	CUMULATIVE WATER BBLS	GAS PRODUCTION MCF	RATE /Day	CUMULATIVE MCF
2330	1963	22	0	550	25.00	550	28,798	1309.0	28,798
2132	1964	148	217	172	1.16	722	223,125	1507.6	251,923
2052	1965	155	210	152	0.98	874	182,813	1179.4	434,736
1912	1966	141	224	163	1.16	1037	201,857	1431.6	636,593
1652	1967	188	177	188	1.00	1225	251,331	1336.9	887,924
1552	1968	296	69	264	0.89	1489	329,869	1114.4	1,217,793
1367	1969	323	42	323	1.00	1812	287,092	888.8	1,504,885
1512	1970	152	213	109	0.72	1921	138,997	914.4	1,643,882
1407	1971	335	30	96	0.29	2017	248,843	742.8	1,892,725
1280	1972	313	52	0	0.00	2017	238,872	763.2	2,131,597
1262	1973	339	26	0	0.00	2017	246,621	727.5	2,378,218
	1974	366	0	0	0.00	2017	230,582	630.0	2,608,800
1092	1975	356	9	0	0.00	2017	206,278	579.4	2,815,078
	1976	340	25	0	0.00	2017	191,954	564.6	3,007,032
1012	1977	353	12	0	0.00	2017	190,858	540.7	3,197,890
	1978	368	0	356	0.97	2373	181,173	492.3	3,379,063
1020	1979	355	10	396	1.12	2769	157,768	444.4	3,536,831
2-5-81 1037	1980	360	5	368	1.02	3137	160,931	447.0	3,697,762
5-12-81 992	1981	295	70	315	1.07	3452	129,774	439.9	3,827,536
7-12-83 1132	1982	185	180	267	1.44	3719	96,413	521.2	3.923,949
1526	1983	145	220	127	0.88	3846	75,708	522.1	3,999,657
852	1984	152	213	206	1.36	4052	60,147	395.7	4,059,804
	1985 thru August	117	126	176	1.50	4228	62,361	533.0	4,122,165


FEDERAL WELL NO. 3
L-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
First Production = 12-63
PRODUCTION PLOT
2000
1800
1600
1400
1200
1000
800
600
400
200
MCF/ DAY
BBLS/ DAY H_2O
3.0
2.0
1.0
gas production
water production
1963
4
5
6
7
8
9
1970
1
2
3
4
5
6
7
8
9
1980
1
2
3
4
5
6
7
8
9
1990
DIETZGEN CORPORATION
MADE IN U.S.A.
NO. 340-10 DIETZGEN GRAPH PAPER
10 X 10 PER INCH

FEDERAL WELL NO. 3
L-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
BHP/Z vs CUMULATIVE PRODUCTION



FEDERAL WELL NO. 3
L-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
First Production = 12-63
DECLINE CURVE

q_o= 1700 Mcf/d

q_{abd}= 15 Mcf/d (assumed)

T = 59.83 years

$q/q_o = e^{-DT} \Rightarrow 15/1700 = e^{-D(59.83)} = .0088235$

$D = \ln .0088235 / -59.83 = .07906$

$N_p = (q_o - q)365/D = (1700-15)365/.07906 =$

7,780,000 MCF or 7.78 BCF

MCF/DAY

TIME - YEARS

Form 9-330
(Rev. 5-63)

Federal #3

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 AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: SF 080136

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal Unit

2. NAME OF OPERATOR: J. Gregory Merrion & Associates

9. WELL NO.: 3-34

3. ADDRESS OF OPERATOR: P. O. Box 507, Farmington, N. M.

10. FIELD AND POOL, OR WILDCAT: Undesignated

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1850' FSL & 1190' FWL

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 34-25N-6W NMPM

At top prod. interval reported below: Same

At total depth: Same

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	10-2-63	Rio Arriba	N. Mex.

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-8-63		10-26-63	6383 GL 6397 KB	6383

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6715 KB	6685 KB		→	6715	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 6518 - 6662 Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: IES-Induction and Gamma Ray Acoustic

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	232	12-1/4	160 sax	
4-1/2	9.5, 10.5 & 11.6	6712	7-7/8	250 sax	
		Stage Collar at 2283		50 sax	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2" EUE	6594	--

31. PERFORATION RECORD (*Interval, size and number*)

6518-23 14 holes
6557-80 23 holes
6634-62 26 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6518-6662	40,000 gal water, 1# Ca Cl2
	5# Dowell J-111 per 1000 gal
	60,000# 20-40 mesh sand
	60 rubber ball sealers

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
10-25-63	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-6-63	3	3/4"		-	4765	-	-

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
383 psig	1242 psig		-	6152	-	-

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Awaiting EPNG gas connection

TEST WITNESSED BY: J. Gregory Merrion

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 Original Signed J. Gregory Merrion TITLE Operator DATE 11-14-63

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Pictured Cliffs	2141	2255	Gas
Gallup	5458	5600	Gas DST #1 5412-5564. Tool open 2 hours. Gas to surface in 4 minutes at 107 MCF/da, decreased to 102 MCF/da for rest of test. Recovered 225' SGCM. IFP 88, FFP 88, ISIP 1911, FSIP 1810
Dakota	6518	6715	Gas DST #2 6630-6715. Tool open 1 hour. Gas to surface in 2-1/2 minutes. 800 MCF/da, decreased to 620 MCF/da. Rec. 50' drilling mud. IFP 190, FFP 150, ISIP 2915, FSIP 2698

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Pictured Cliffs	2141	2141
Chacra	2950	2950
Cliffhouse	3693	3693
Mancos	4583	4583
Gallup	5458	5458
Greenhorn	6309	6309
Graneros	6408	6408
Dakota	6512	6512

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

FEDERAL WELL NO. 3-E

The Federal Well No. 3-E was completed on 6-9-80 in the NE¼SE¼ section 34,T25N,R.6W., BROWN dot on Plat II, with an initial potential of 2227 MCF/day. This well has experienced very erratic production with several 4 month total shut-in time periods. This appears to have affected this well adversely as compared to the Federal Well No. 3, possibly because this is a new well and more sensitive to extended shut-ins. Comparing this well to the Salazar well No. 4-E, which is also a new in-fill well, a 4-month or greater total shut-in period would be damaging, so the Salazar No. 4-E is on the verge of experiencing irreversible damage this month. A BHP/z vs. Cumulative Production analysis indicates that Gas-In-Place for this well is about 1.1 BCF (this may be low due to limited pressure information), with assumed 85% recovery yielding Recoverable Reserves of .935 BCF. To date the well has recovered .407 BCF. A decline plot (hampered by the erratic production) indicates that recovery will only be about .677 BCF. This means a loss of predicted recovery of .258 BCF or 27.6% of producible reserves. This would indicate that the well is not being produced for long enough periods, at sufficient volume, on a regular basis to remove the water adequately. Damage appears to be occurring and may prove to be irreversible.

PRODUCTION TABLE

WELL NAME Federal Well No. 3-E

WELL LOCATION I-34-25N-6W

Perfs 6509-6720

Completion Date 6-9-80

Initial Potential 2227 MCF/day

Initial Pressure SICP = 1600 psia

Initial GOR/Gravity .696

ICP sia	DATE	PRODUCTION DAYS / SHUT-IN		OIL/H_2O PRODUCTION BBLS		RATE /Day WATER	CUMULATIVE WATER BBLS	GAS PRODUCTION MCF	RATE /Day	CUMULATIVE MCF
	1980									
1600	8	15	16		50	3.33	50	8496	566.4	8496
	9	30	0		45	1.50	95	14012	467.1	22508
	10	31	0		47	1.52	142	13669	440.9	36177
12-5-80	11	30	0		49	1.63	191	13082	436.1	49259
1312	12	26	5		25	.96	216	10241	393.9	59500
	YTotal	132	31	473	216	1.64	216	59500	450.8	59500
	1981									
	1	29	2		15	.52	231	12300	424.1	71800
	2	28	0		12	.43	243	10870	388.2	82670
	3	31	0		10	.32	253	12048	388.6	94718
	4	30	0		11	.37	264	11148	371.6	105866
	5	6	25		0	0.00	264	2255	375.8	108121
	6	0	30		0	0.00	264	0	0.0	108121
	7	31	0		12	.39	276	13741	443.3	121862
	8	31	0		10	.32	286	11596	374.1	133458
	9	30	0		8	.27	294	10713	357.1	144171
	10	31	0		10	.32	304	10661	343.9	154832
	11	30	0		10	.33	314	10249	341.6	165081
	12	31	0		12	.39	326	10312	332.6	175393
	YTotal	308	57	568	110	.36	326	115893	376.3	175393
	1982									
	1	31	0		14	.45	340	10300	332.3	185693
	2	28	0		12	.43	352	9201	328.6	194894
	3	26	5		15	.58	367	9140	351.5	204034
	4	28	2		14	.50	381	8507	303.8	212541
5-13-82 812	5	21	10		16	.76	397	7125	339.3	219666

PRODUCTION TABLE

WELL NAME Federal Well No. 3-E continued

WELL LOCATION _____

Perfs _____

_____

Completion Date _____

Initial Potential _____

Initial Pressure _____

Initial GOR/Gravity _____

SICP psia	DATE	PRODUCTION DAYS / SHUT-IN		OIL/H_2O PRODUCTION BBLS		RATE /Day WATER	CUMULATIVE WATER BBLS	GAS PRODUCTION MCF	RATE /Day	CUMULATIVE MCF
	6	25	5	15		0.60	412	8995	359.8	228661
	7	17	14	20		1.18	432	7037	413.9	235698
	8	10	21	9		.90	441	5592	559.2	241290
	9	0	30	0		0.00	441	0	0.0	241290
	10	0	31	0		0.00	441	0	0.0	241290
	11	6	24	5		.83	446	3604	600.7	244894
	12	31	0	14		.45	460	10420	336.1	255314
	YTotal	223	142	576	134	.60	460	79921	358.4	255314
	1983									
	1	31	0	15		.48	475	9723	313.6	265037
	2	28	0	12		.43	487	7961	284.3	272998
	3	10	21	7		.70	494	3021	302.1	276019
	4	13	17	7		.54	501	5784	444.9	281803
	5	0	31	0		0.00	501	0	0.0	281803
	6	0	30	0		0.00	501	0	0.0	281803
	7	0	31	0		0.00	501	0	0.0	281803
	8	0	31	0		0.00	501	0	0.0	281803
	9	14	16	10		.71	511	7718	551.3	289521
0-13-83 1132	10	8	23	9		1.12	520	3133	391.6	292654
	11	4	26	8		2.00	528	1187	296.8	293841
	12	31	0	16		.52	544	12241	394.9	306082
	YTotal	139	226	374	84	.61	544	50768	365.2	306082
	1984									
	1	23	8	7		.30	551	5777	251.2	311859
	2	0	29	0		0.00	551	0	0.0	311859
	3	0	31	0		0.00	551	0	0.0	311859

PRODUCTION TABLE

WELL NAME Federal Well No. 3-E continued

WELL LOCATION _____

Perfs _____

_____

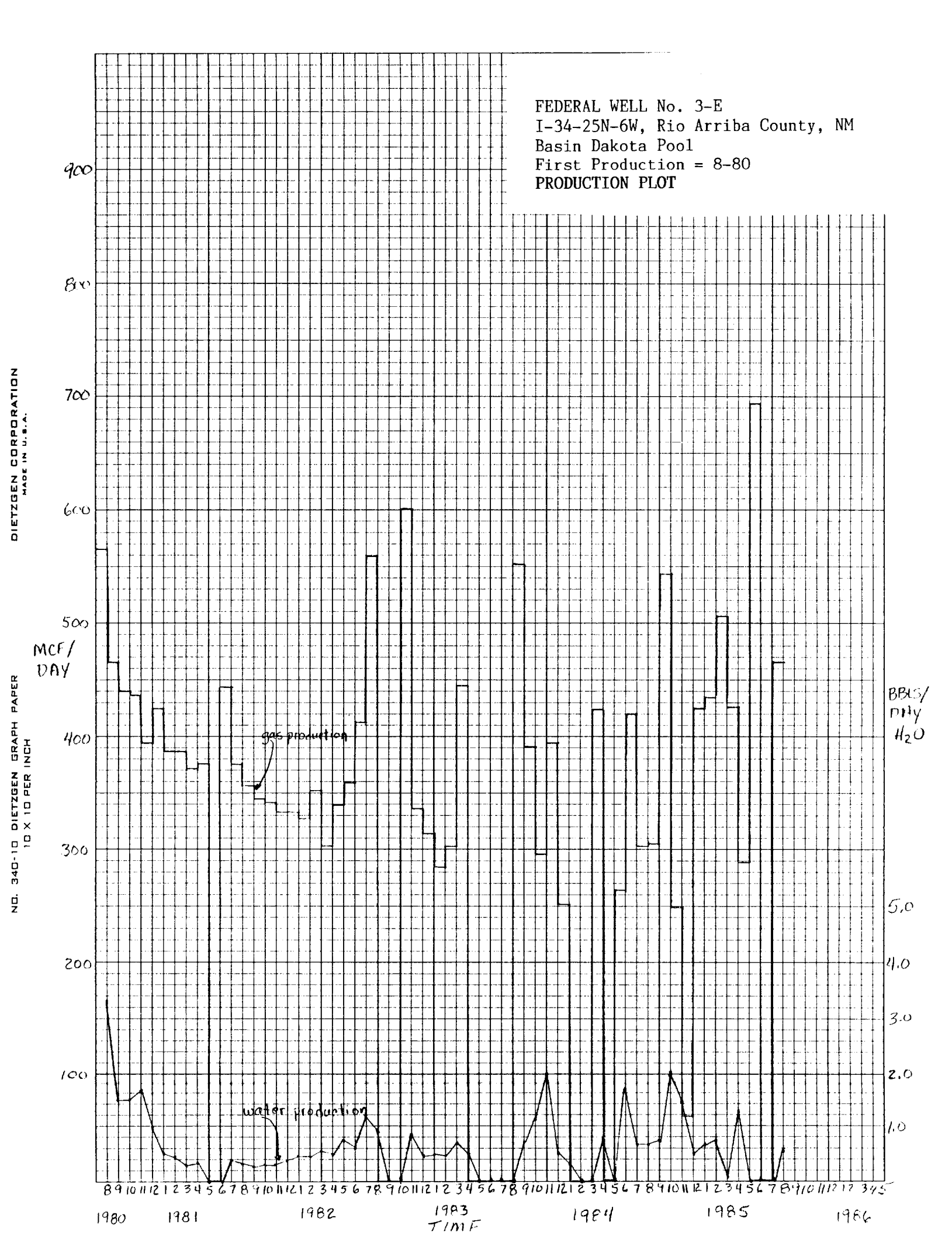
Completion Date _____

Initial Potential _____

Initial Pressure _____

Initial GOR/Gravity _____

SICP psia	DATE	PRODUCTION DAYS / SHUT-IN		OIL/H_2O PRODUCTION BBLS	RATE /Day WATER	CUMULATIVE WATER BBLS	GAS PRODUCTION MCF	RATE /Day	CUMULATIVE MCF
	4	24	6	18	.75	569	10181	424.2	322040
5-5-84 1112	5	0	31	0	0.00	569	0	0.0	322040
	6	3	27	5	1.67	574	790	263.3	322830
	7	31	0	20	.64	594	13021	420.0	335851
	8	31	0	20	.64	614	9379	302.5	345230
	9	26	4	20	.77	634	7922	304.7	353152
	10	9	22	18	2.00	652	4887	543.0	358039
	11	14	16	20	1.43	672	3487	249.1	361526
	12	21	10	10	.48	682	1243	59.2	362769
	YTotal	182	183	425 138	.76	682	56687	311.5	362769
	1985								
	1	24	7	15	.62	697	10188	424.5	372957
	2	17	11	12	.71	709	7382	434.2	380339
	3	9	22	1	.11	710	4561	506.8	384900
	4	16	14	20	1.25	730	6815	425.9	391715
	5	5	26	0	0.00	730	1446	289.2	393161
	6	3	17	0	0.00	730	2079	693.0	395240
	7	0	31	0	0.00	730	0	0.0	395240
	8	26	5	15	.58	745	12091	465.0	407331
	YTD	100	133	63	.63	745	44562	445.6	407331


FEDERAL WELL No. 3-E
I-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
First Production = 8-80
PRODUCTION PLOT
900
800
700
600
500
400
300
200
100
MCF/DAY
BBLS/DAY H2O
5.0
4.0
3.0
2.0
1.0
gas production
water production
1980
1981
1982
1983
1984
1985
1986
TIME
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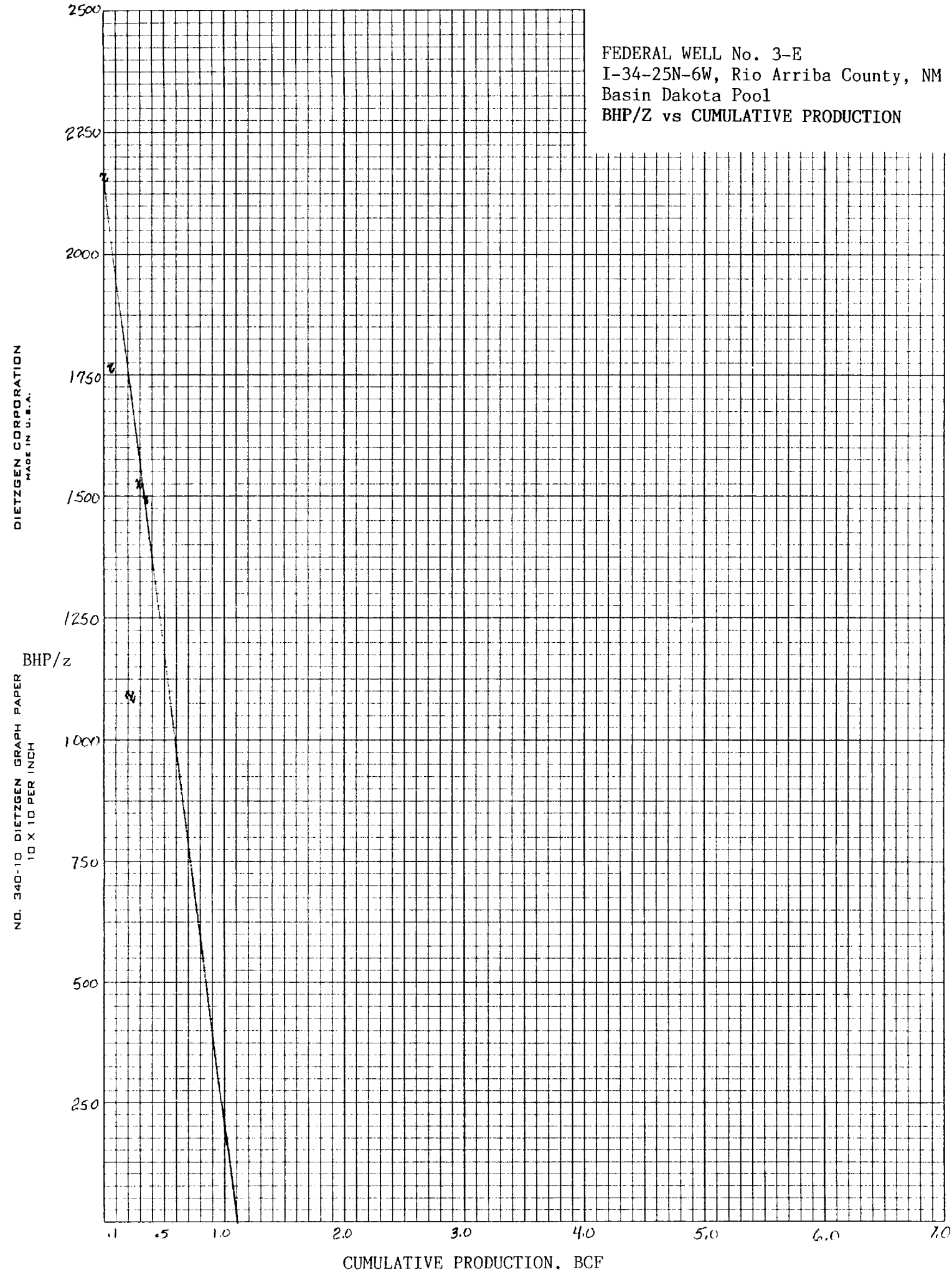
FEDERAL WELL No. 3-E
I-34-25N-6W, Rio Arriba County, NM
Basin Dakota Pool
BHP/Z vs CUMULATIVE PRODUCTION
2500
2250
2000
1750
1500
1250
1000
750
500
250
BHP/z
.1
.5
1.0
2.0
3.0
4.0
5.0
6.0
7.0
CUMULATIVE PRODUCTION, BCF
DIETZGEN CORPORATION
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NO. 340-10 DIETZGEN GRAPH PAPER
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