STRATA PRODUCTION COMPANY

NASH DRAW - BRUSHY CANYON POOL EDDY COUNTY, NEW MEXICO

SPECIAL POOL RULES GAS-OIL RATIO LIMITATION CASE No. 10935 ORDER No. R-10096

BEFORE THE OIL CONSERVATION DIVISION NEW MEXICO DEPARTMENT OF ENERGY, MINERALS, AND NATURAL RESOURCES

NOVEMBER 16, 1995

EXHIBIT No. 1 to 15

PECOS PETROLEUM ENGINEERING, INC. ROSWELL, NEW MEXICO

STRATA PRODUCTION COMPANY NASH DRAW - BRUSHY CANYON POOL EDDY COUNTY, NEW MEXICO SPECIAL POOL RULES - CASE No. 10935 GAS-OIL RATIO LIMITATION

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The Nash Draw - Brushy Canyon Pool initially was subject to standard 40 acre proration units, standard depth bracket allowable of 142 BOPD (6,000' to 6,999') and a standard 2,000 to 1 GOR limit. The standard GOR limit results in a casinghead gas allowable of 284 MCFD (8520 MCF per month). At a hearing on March 17, 1994 application was made and evidence given in support for Special Rules increasing the GOR limit. The Division Director issued Order No. R-10096 on April 11, 1994 increasing the GOR limit to 8000 cubic feet of gas per barrel of oil produced. This results in a casing head gas allowable of 1,136 MCFD per 40 acre proration unit. The Oil Conservation Division, on its own motion, requested a review of these temporary rules on or about November 1, 1995.

As further evidence will show, the Brushy Canyon pool is a solution gas drive reservoir, which through normal depletion has an increasing GOR. An increase in the GOR limit will allow continued production and will not result in waste.

The Nash Draw - Brushy Canyon Pool is located in Sections 12, 13, 14 and 24, T23S-R29E and Section 18, T23S-R30E as shown on the Pool Map, Exhibit I, highlighted with yellow. The pool is located approximately 9 miles East of the town of Loving in Eddy County, New Mexico. As indicated on the Area Map, Exhibit I-, the analogous Delaware production is in the East Loving Brushy Canyon Pool in T23S-R28E, approximately 6 miles West of the Nash Draw field. The East Loving Brushy Canyon Pool produces from the same interval as the Nash Draw Brushy Canyon Pool and has similar production characteristics. Production curves are provided in Exhibit I-C.

Exhibit II is a listing of the wells that have produced from the Delaware interval (Bell canyon, Cherry Canyon and Brushy Canyon) showing the location of each well, from which Pools the well has produced, the perforated intervals and any pertinent comments about the wells. The Nash Draw #1 and #4 wells indicate production from the Cherry Canyon Pool. The #4 has been abandoned in the Cherry Canyon and converted to SWD and the #1 has squeezed off the Cherry Canyon perfs and has been completed in the Brushy Canyon. The Nash Draw #1, 5, 6, 9, 10, 11, 13, 14, 15, 19 20, 23 and 24 have been completed in the Brushy Draw Pool. B.K. Exploration has tested two wells in section 24, T23S-R29E in the Brushy Canyon, with limited success. The Nash Draw #1, 9 and 10 were the first wells to be completed in the Brushy Canyon Pool in the last part of 1992.

Land

The majority of the lands covered by the Nash Draw Brushy Canyon Pool are located in the Nash Unit operated by Strata Production Company. Thirteen of the fifteen producing wells are inside this unit. The two wells outside the Unit are located in the E/2 of section 24, T23S-R29E and are operated by B.K. Exploration.

The Nash Unit is a federal exploratory unit covering sections 1, 11, 12, 13 and 14, T23S-R29E and sections 6, 7 and 18, T23S-R30E. Working interests in the Unit are on an undivided basis and royalties and overriding royalties are based on participating areas.

The B.K. Exploration wells are on a state lease located in section 24, T23S-R29E, just south of the Nash Unit. These wells were completed in the last quarter of 1994.

Geology

The main pay intervals in the Nash Draw Brushy Canyon Pool are the Basal Brushy Canyon zones designated the "K" and "L". These zones are shown on the type log presented in Exhibit III. The top of the Brushy Canyon is at 5230 ft. (-2229 ft. subsea) and the "L" zone lies on top of the Bone Springs zone at 6840' (-3839 ft.).

The Structure Map on top of the "K" zone, Exhibit IV-A, and the Structure Map on top of the "L" zone, Exhibit IV-B, indicate regional dip of approximately 130 feet per mile to the east. Analysis of the net pay and the calculation of oil-feet in each well, Exhibit V-A and V-B, shows parallel northeast-southwest channel sands. The productive limit to the southeast in the "K" sand is defined by an oil-water contact. No oil-water contact has been seen in the "L" zone.

Other potential pay zones in the Brushy Canyon have been tested as outlined in Exhibit II. These other zones have made minor contributions and are not as prolific as the "K" and "L" zones.

Reservoir Characterization

Through analysis of the production from the Nash Draw Brushy Canyon Pool, a reservoir characterization can be formulated. As shown in Exhibit VI, the start of production with the completion of the Nash Draw #1, 9 & 10 in October 1992 and the subsequent development of the field, now with a total of 15 wells. Oil production peaked in October 1994 at 17,595 BOPM, and gas production peaked in November 1994 at 99,424 MCFGM.

Examination of Exhibit VI indicates the Gas-Oil Ratio for this pool was initially 1500 to 1, but, after additional production and the drilling of additional wells the average GOR is now approximately 6300 to 1. Individual wells have GOR's as high as 16,000 to 1 as shown in Exhibit VII.

Exhibit VII indicates the initial GOR and present GOR for each well in the pool. As can be seen on this exhibit the GOR's are not a function of structure, as the lower wells have the higher GOR's. The GOR's are a function of production and well density. The newer wells on the western side of the pool, have lower GOR's. From this we can conclude there is no active gas cap and because the Delaware in this pool has low permeability, .2 to 6 md., the formation of a secondary gas cap is unlikely.

Exhibit VIII indicates the percent water cut for the Nash Draw Brushy Canyon Pool. The water cuts typically declined at a slightly lower rate than the oil. This can be attributed to the water wet nature of the reservoir and the relative permeability to water remaining constant while the relative permeability to oil decreases. No active water drive has been observed in this reservoir.

Exhibits IX are individual well production-GOR curves and the associated data. The data indicates the wells produce with an initial GOR of approximately 1000 to 1 and after a few months the GOR increases to as high as 16,000 to 1 in the #1, 6 and 14 wells.

The decreasing water rates coupled with the increasing GOR indicates the Nash Draw Brushy Canyon Pool is a typical solution gas drive reservoir. There is no indication of a water drive, because water rates are decreasing and the GOR is increasing indicating no water influx and a corresponding decline in reservoir pressure. The GOR is behaving as expected in a classic solution gas drive reservoir, with initial GOR's low and increasing as cumulative production increases. Comparing the Nash Draw Brushy Canyon production with a typical solution-gas drive reservoir (Exhibit X) as depicted in H.C. Slider's "Practical Petroleum Reservoir Engineering Methods"¹ shows that this is a solution-gas drive reservoir. The graph shows that in a solution-gas drive reservoir, the GOR remains constant until the bubble point pressure is reached then the GOR may decline slightly until the critical gas saturation is reached and the permeability to gas. In late time the GOR levels off and may decrease due to change in formation volume factors.

A recombined sample was taken for PVT analysis and a BHP buildup performed on the Nash Draw #19, located in unit J, Section 12-T23S-R29E. The analysis by Core Laboratories shows the "Bubble Point" pressure is 2677 psig and the "Bottom Hole Pressure Build-Up" indicates the reservoir pressure to be 2963 psig. This data is presented in Exhibit XI. The relative closeness of the reservoir pressure to the bubble point pressure shows that with a small amount of withdrawal from the reservoir, the pressure would be reduced and bubble point reached early in the life of the wells in this pool. This was demonstrated in Exhibit **XI**, individual well GOR data. The bubble point pressure in the Loving Brushy Canyon Pool is 2850 psi.

The SPE Petroleum Engineers Handbook² discusses in detail solution gas drive reservoirs and simulation studies by Mr. R.L Ridings³, and his conclusions concerning solution gas drive reservoirs. Mr. Ridings concluded:

1) "Ultimate recovery is essentially independent of rate and spacing, and agrees closely with recovery predicted by the conventional Muskat method."

- 2) "GOR depends somewhat on rate and spacing. For high rates or close spacing, GOR's initially are higher, but later become lower than a Muskat prediction would indicate. At low rates or wide spacing, GOR behavior approaches a Muskat prediction."
- 3) Computed depletion time agreed closely with conventional analysis (productivity index method) at low pressure drawdown, but differed more for high drawdowns. This is in qualitative agreement with results obtained by Vogel.
- 4) "Intermittent operation greatly affects instantaneous GOR behavior, but the cumulative GOR is not affected significantly. Also, oil recovery is not affected." This refers to the cumulative oil recovery, not the amount of oil recovered in a given time period.

These conclusions are substantiated by analysis of the material balance equation Exhibit XII and XII-B. All of the variables except the produced gas-oil ratio are a function of pressure and the properties of the reservoir fluids. Since the nature of the reservoir fluids are fixed, the recovery is fixed by the PVT properties of the reservoir fluid and produced gas-oil ratio. The cumulative GOR is not significantly affected by rate, the ultimate recovery will not be significantly affected by the production rate.

Field application of these conclusions involves generating typical decline curves to model the producing history of a typical Delaware well. Typical Delaware wells completed from 1987 (Exhibit XIII) indicate an initial decline of 50% for the first year, a 25% decline for the next two years and a 12% decline for the remaining life of the well. The model was then applied to Loving Brushy Canyon fields, Exhibit XIV, with a good match. This confirms that recovery from high GOR Delaware fields is not affected by rate or GOR, but are controlled by the reservoir fluid properties. Therefore, recovery will not be affected by a higher GOR limit.

A match was made with the Nash Draw Brushy Canyon Pool wells (Exhibit XI) to demonstrate the expected decline. The Nash Draw Brushy Canyon Pool wells exhibit a good match except in the area surrounding the Nash Draw #1. This area has shown rapidly increasing GOR and steeper declines in oil production. This is a function of close well spacing and more rapid declines in reservoir pressures.

Economics

Without an increase in the GOR limit, oil production will have to be curtailed on the Nash Draw Unit #11, 14, 15, 19, 23 and 24 wells to maintain the statutory casinghead gas allowable of 284 MCFGD. This will have the effect of extending the life of the well and increasing the time to payout the cost of drilling. This will result in higher costs to the operator, due to increased operating costs for the additional years the well is produced and the loss of value due to the time value of money.

For example, the Nash Draw Unit #19 well produced 13,024 MCFG in August 1995, without the higher gas allowable, gas production would have been curtailed 32% to maintain the 2000 to 1

GOR limit.

Using the Nash draw #19 as an example, Exhibit XV-A, the net cash flow is reduced by \$357,000 and the revenue discounted at 10% is reduced by \$509,000, if the well is produced with a maximum GOR of 2000 to 1. This is based on the same recoveries but in the first case the GOR is limited to 2000 to 1 and the second case the GOR is allowed to increase throughout the life of the well. The higher GOR limit reduces the producing life of the well, thus reducing operating costs, while recovering the same amount of reserves.

As more wells are drilled to develop this field, the reservoir pressure will continue to decline. This will allow more gas to come out of solution, resulting in higher GOR's. For future development of this field it is important to have a higher GOR limit to provide for efficient production of these reserves and full development of this resource.

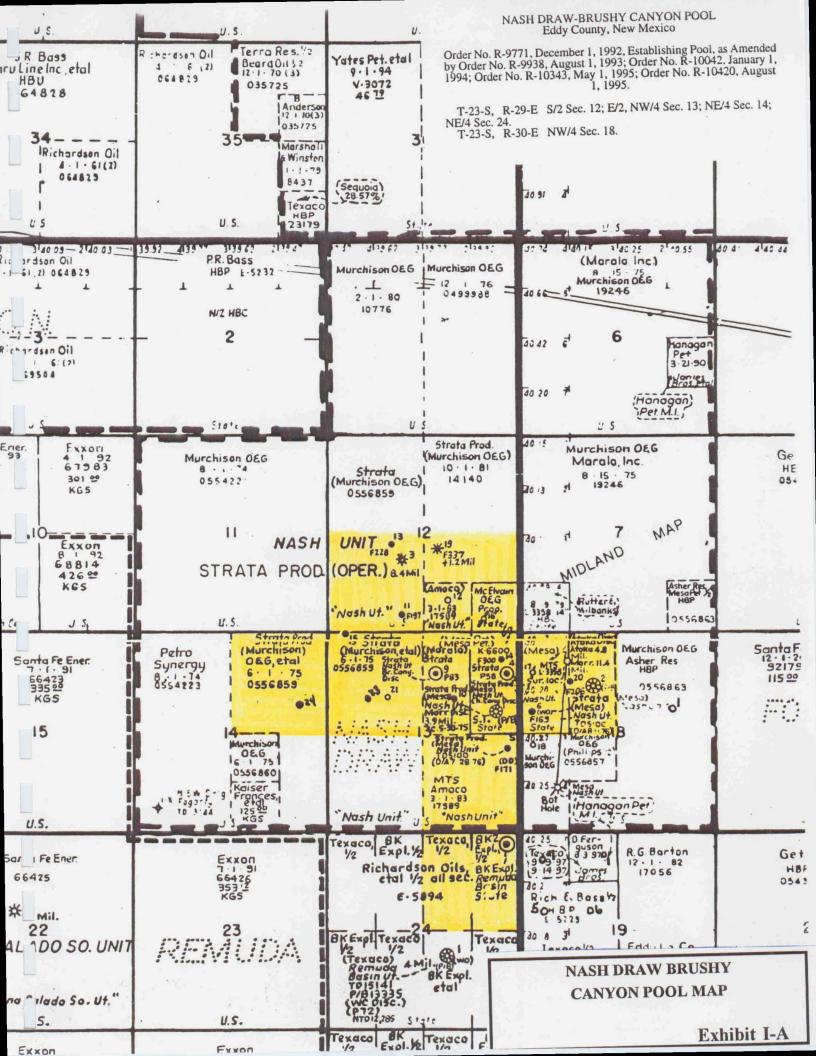
Conclusion

The Brushy Canyon formation is a solution gas drive reservoir and is not rate sensitive as far as gas production and GOR are concerned. The ultimate recovery is governed by reservoir fluid properties and not production rates. To prevent waste of the operator's resources and reserves, an increase in the GOR limit to 8,000 to 1 should be granted. Granting, the higher GOR limit will not affect correlative rights.

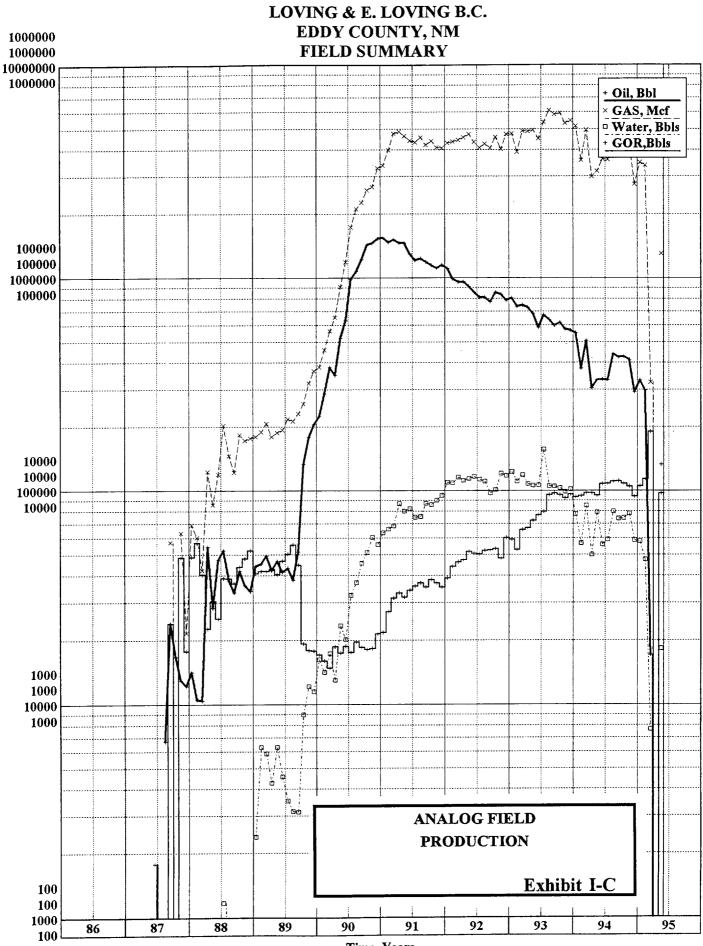
1 Slider, H.C.: Practical Petroleum Reservoir Engineering Methods, Petroleum Publishing Company, Tulsa, Oklahoma (1976), p. 342.

2 Bradley, Harold B.: Petroleum Engineers Handbook, Society of Petroleum Engineers, Richardson, Texas (1987), p. 37-21.

3 Riding, R.L. et al.: "Experimental and Calculated Behavior of Dissolved-Gas-Drive Systems," Society of Petroleum Engineers Journal (March 1963), 41-48: Transactions, AIME, p. 228.



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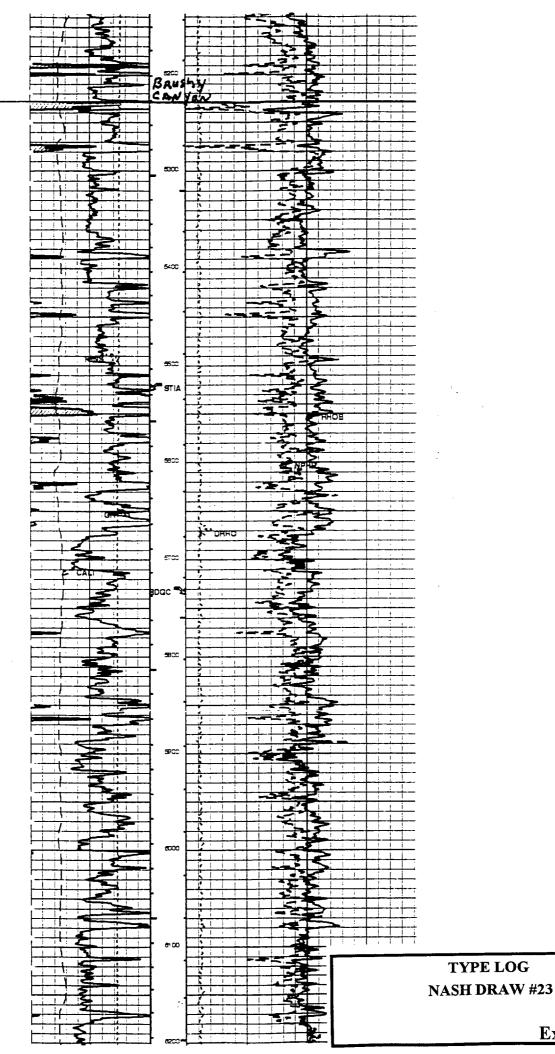


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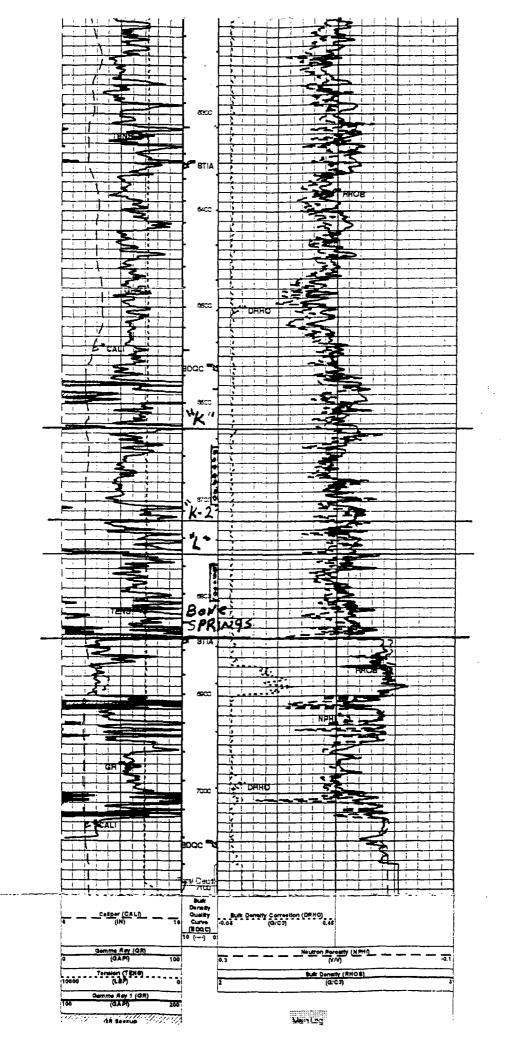
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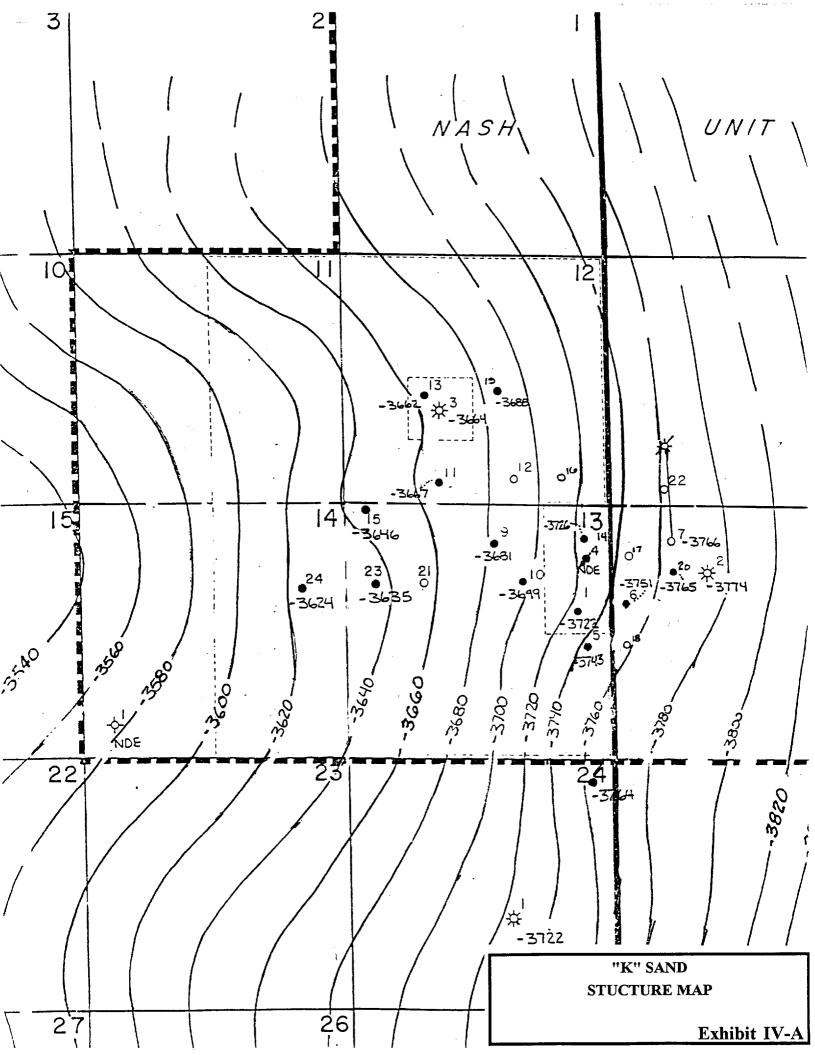
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WELL NAME	LOCATION	PERF.	<u>PERF.</u>	FORMATION	COMMENTS
NASH DRAW #1	H SEC. 13-T23S-R29	4780	4784	CHERRY CANYON	SQUEEZED 9/28/92
		4936	4932	CHERRY CANYON	SQUEEZED 9/28/92
		6772	6899	BRUSHY CANYON	266 BO, 176 MCFG, 22 BW
		6385	6400	BRUSHY CANYON	TESTED 10 BWPD
NASH DRAW #4	A SEC. 13-T23S-R29	4785	4788	CHERRY CANYON	SET CIBP @4738'
		4930	4936	CHERRY CANYON	CONVERT TO DISPOSAL
		4952	4956	CHERRY CANYON	7-30-93
		3240	3734		SWD
NASH DRAW #5	I SEC. 13-T23S-R29E	6902	6933	BRUSHY CANYON	171 BO, 137MCFG, 265 BW
NASH DRAW #6	E SEC. 18-T23S-R30	6906	6933	BRUSHY CANYON	169 BO, 131 MCFG, 77 BW
NASH DRAW #9	B SEC. 13-T23S-R29	5432	5440	BRUSHY CANYON	2-19-93
		5838	5843	BRUSHY CANYON	COMPLETE ADDITIONAL PAY
		6318	6373	BRUSHY CANYON	
		6713	6749	BRUSHY CANYON	83 BO, 53 MCFG, 147 BW
		6831	6880	BRUSHY CANYON	7-20-92
NASH DRAW #10	G SEC. 13-T23S-R29	5858	5864	BRUSHY CANYON	4-10-93
		6319	6329	BRUSHY CANYON	COMPLETE ADDITIONAL PAY
		6767	6779	BRUSHY CANYON	
		6846	6864	BRUSHY CANYON	173 BO, 123 MCFG, 52 BW
NASH DRAW #11	N SEC. 12-T23S-R29	6795	6821	BRUSHY CANYON	197 BO, 139 MCFG, 277 BW
		6679	6700	BRUSHY CANYON	COMPLETED IN 1995, 18 B0PD
		6280	6303	BRUSHY CANYON	
		5897	5905	BRUSHY CANYON	u.
		5863	5809	BRUSHY CANYON	"
		5405	5416	BRUSHY CANYON	
		5022	5079	BRUSHY CANYON	
NASH DRAW #13	K SEC. 12-T23S-R29	6791	6836	BRUSHY CANYON	228 BO, 123 MCFG, 144 BW
		6879	7007	BRUSHY CANYON	
NASH DRAW #14	A SEC. 13-T23S-R29	6870	6889	BRUSHY CANYON	300 BO, 143 MCFG, 197 BW
NASH DRAW #19	J SEC. 12-T23S-R29E	6721	6734	BRUSHY CANYON	337 BO, 1200 MCFG, 1 BWPD
		6812	6830	BRUSHY CANYON	
WELLS COMPLE	TED SINCE MARCH	17, 1994 H	<u>IEARING</u>		
NASH DRAW #15	D SEC. 13-T23S-R29	6686	6818	BRUSHY CANYON	263 BO, 430 MCFG, 215 BWPD
NASH DRAW #20	C SEC. 18-T23S-R30	6932	6956	BRUSHY CANYON	206 BO, 260 MCFG, 73 BWPD
NASH DRAW #23	E SEC. 13-T23S-R29	6643	6801	BRUSHY CANYON	196 BO, 375 MCFG, 500 BWPD
NASH DRAW #24	H SEC. 24-T23S-R29	6650	6794	BRUSHY CANYON	213 BO, 130 MCFG, 406 BWPD
REMUDA BASIN UNIT #1	J SEC. 24-T23S-R29E			BRUSHY CANYON	35 BO, 70 MCGFD
REMUDA BASIN "24" STATE #2	A SEC. 24-T23S-R29	6919	6928	BRUSHY CANYON	IPP 38 BO, 12 MCFG, 274 BWPD

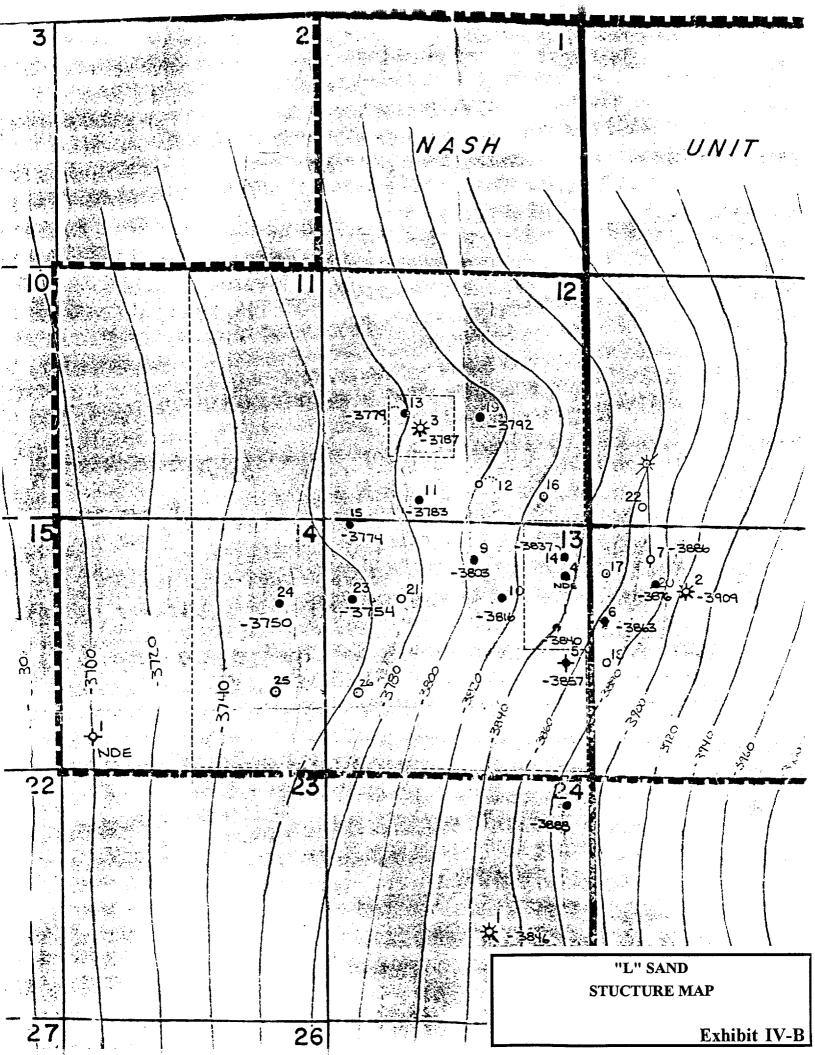
Exhibit II

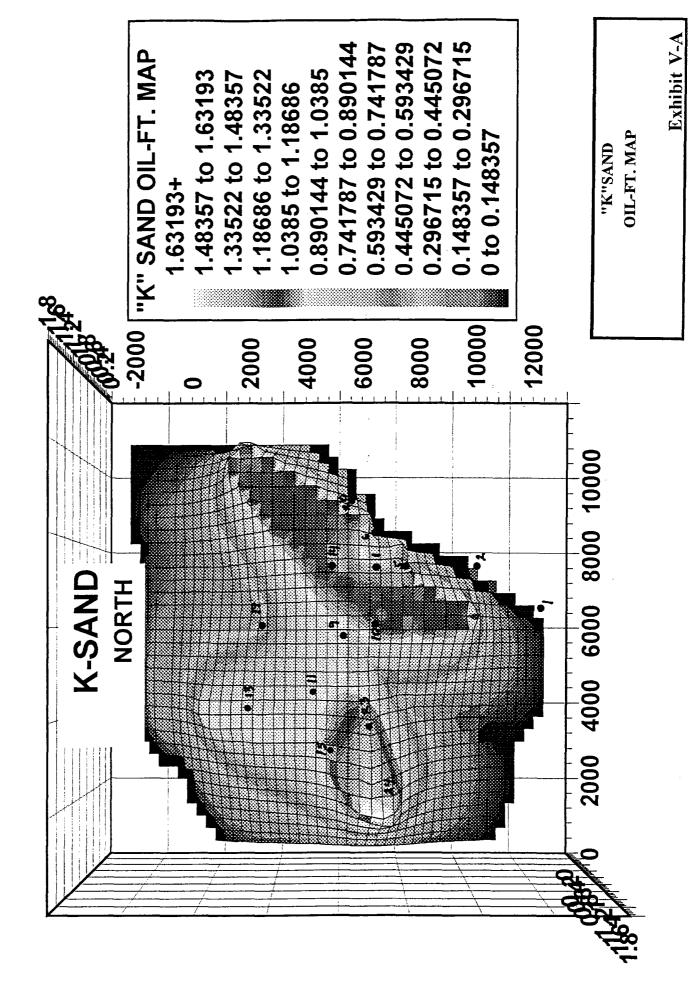


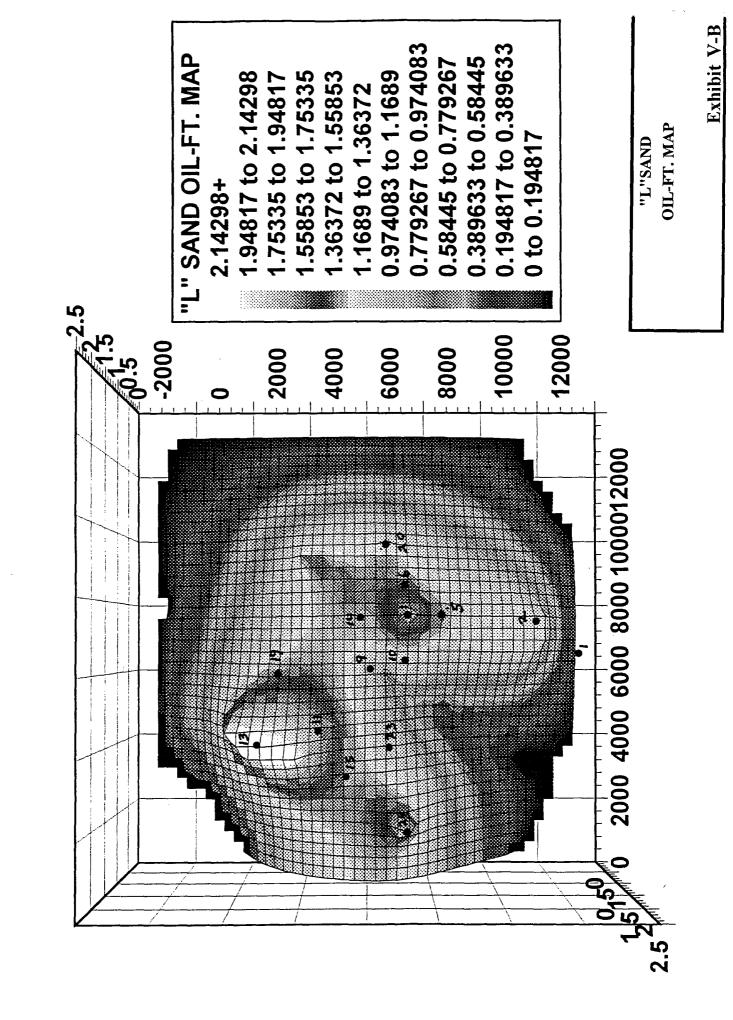


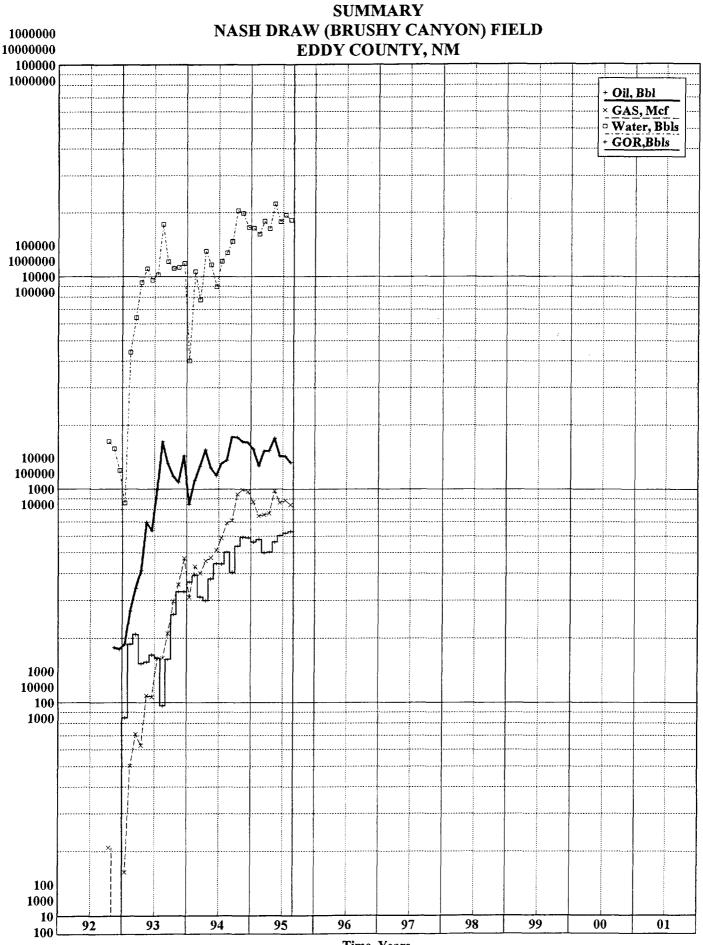












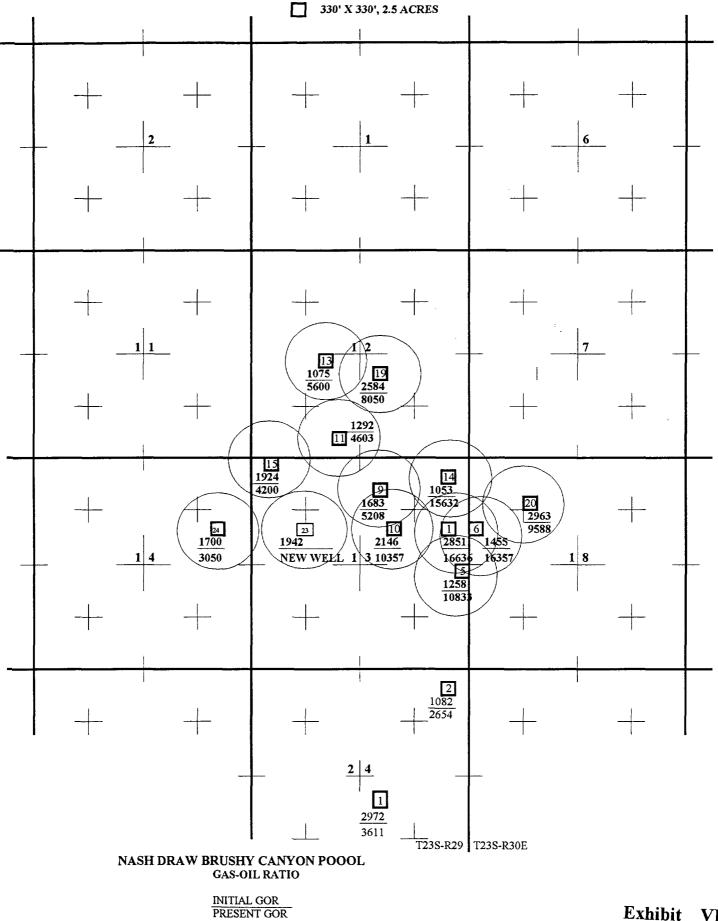


Exhibit VII

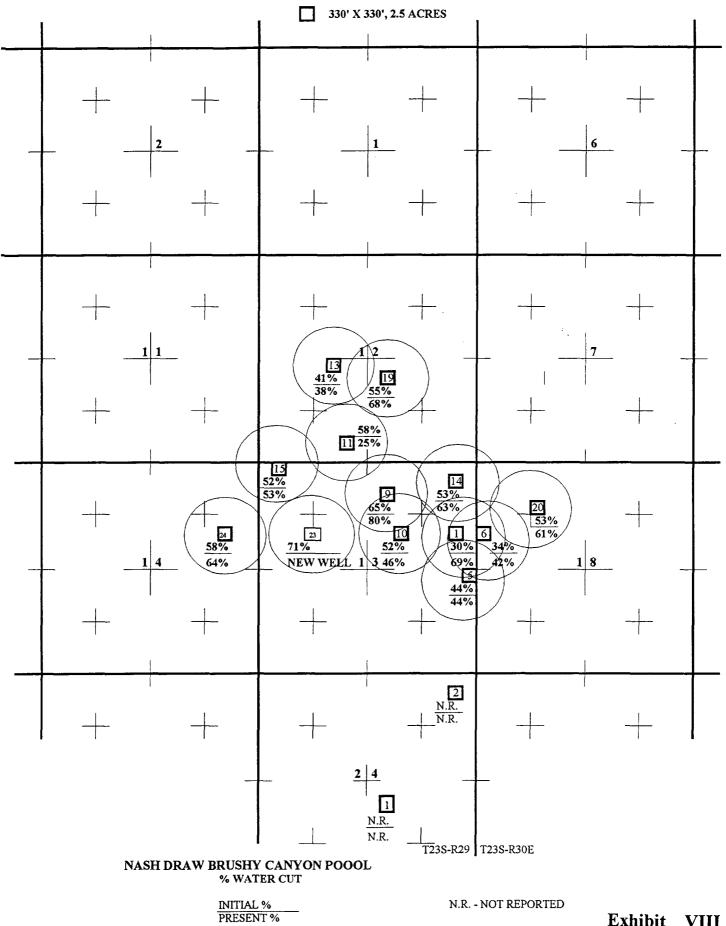


Exhibit VIII

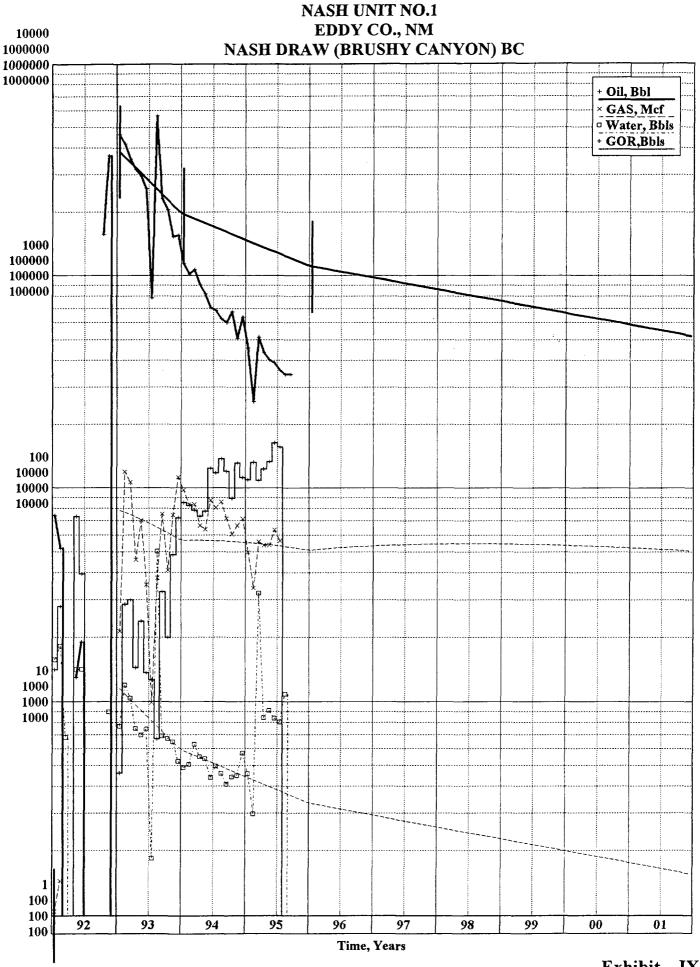


Exhibit IX-A

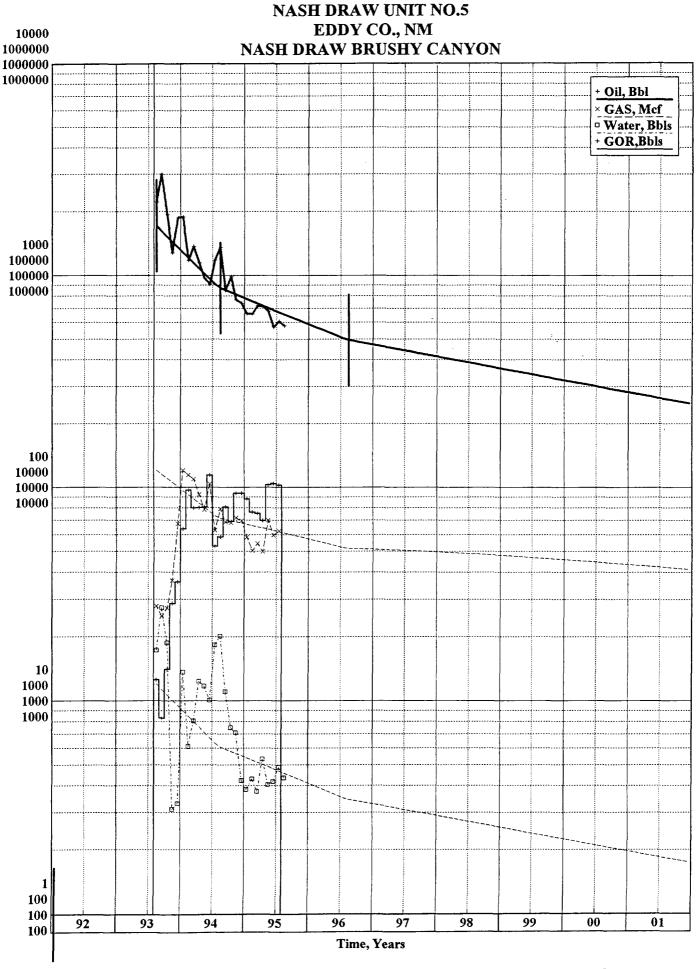
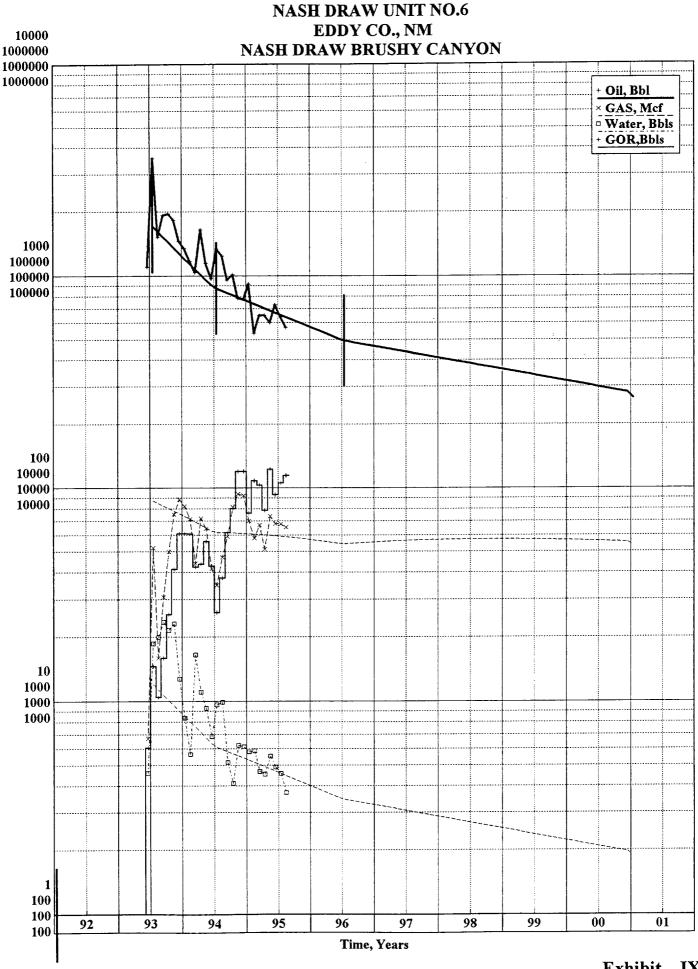


Exhibit IX-B



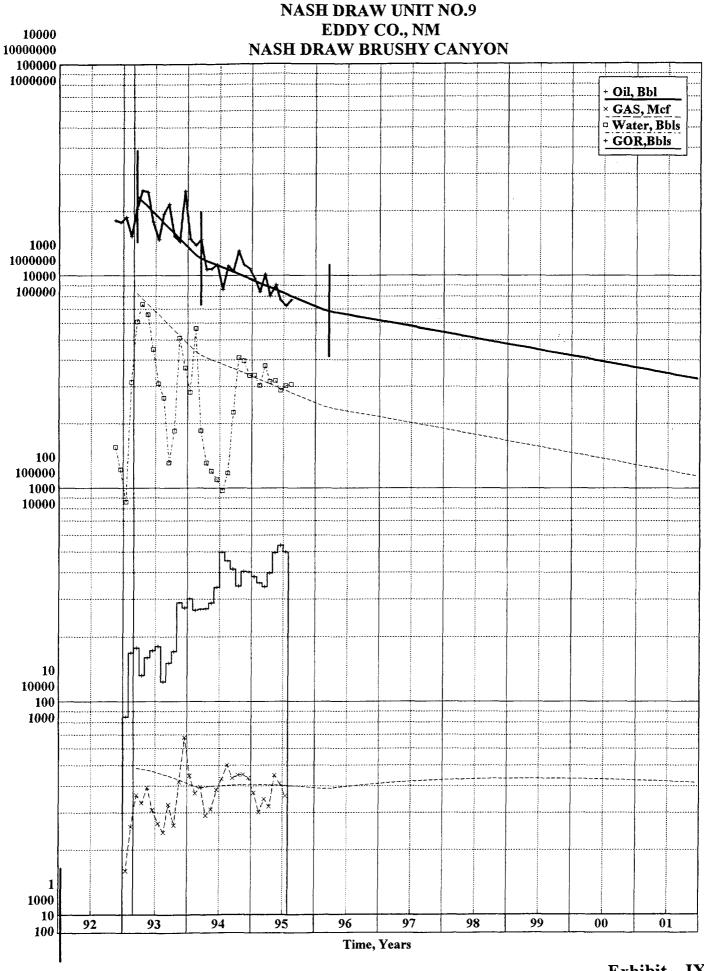


Exhibit IX-D

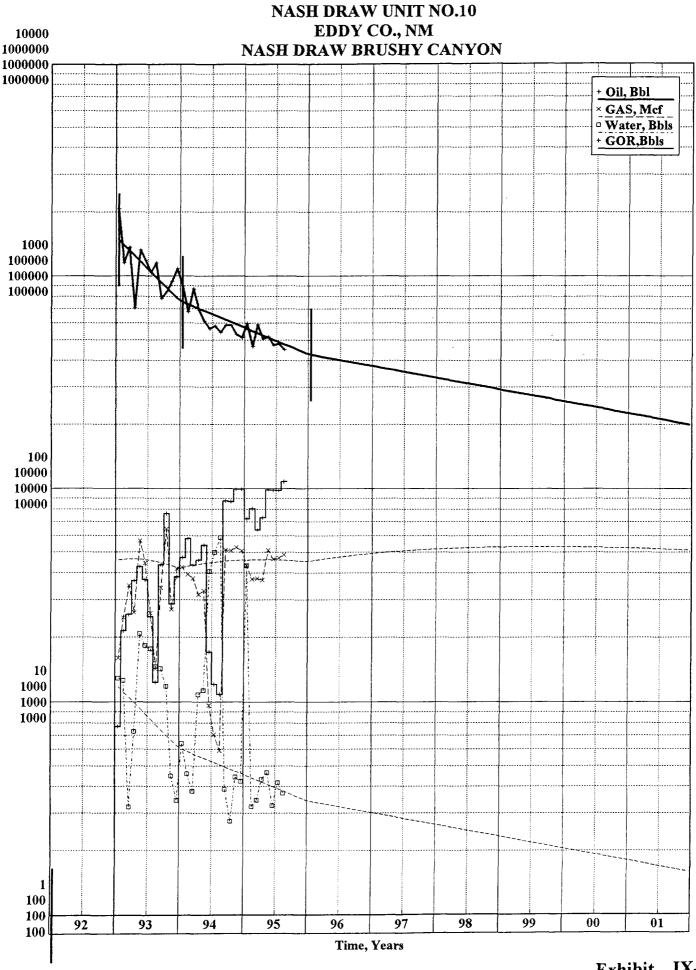


Exhibit IX-E

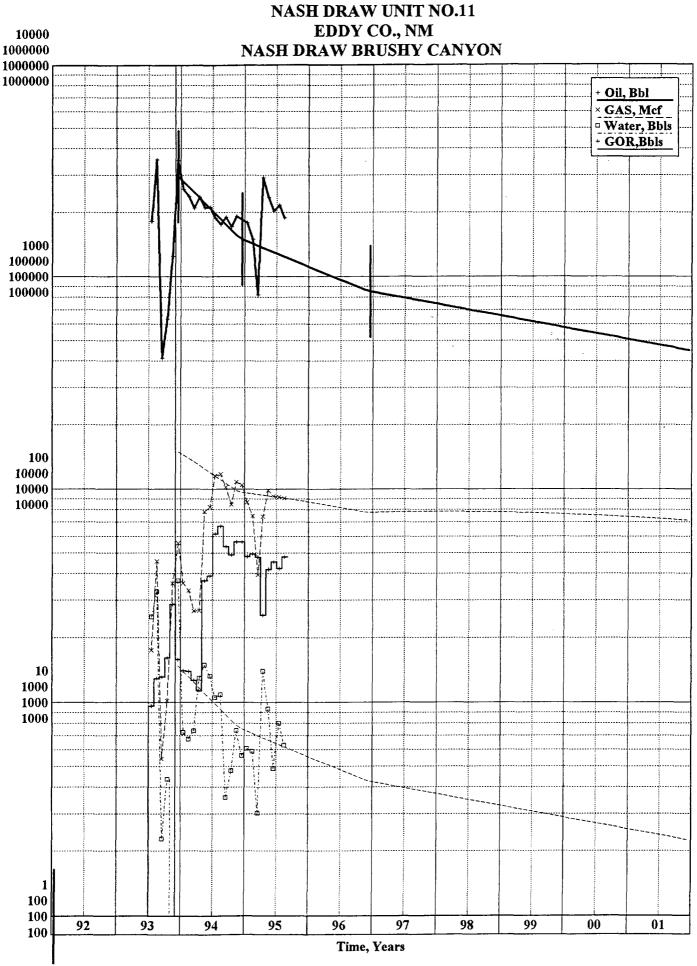


Exhibit IX-F

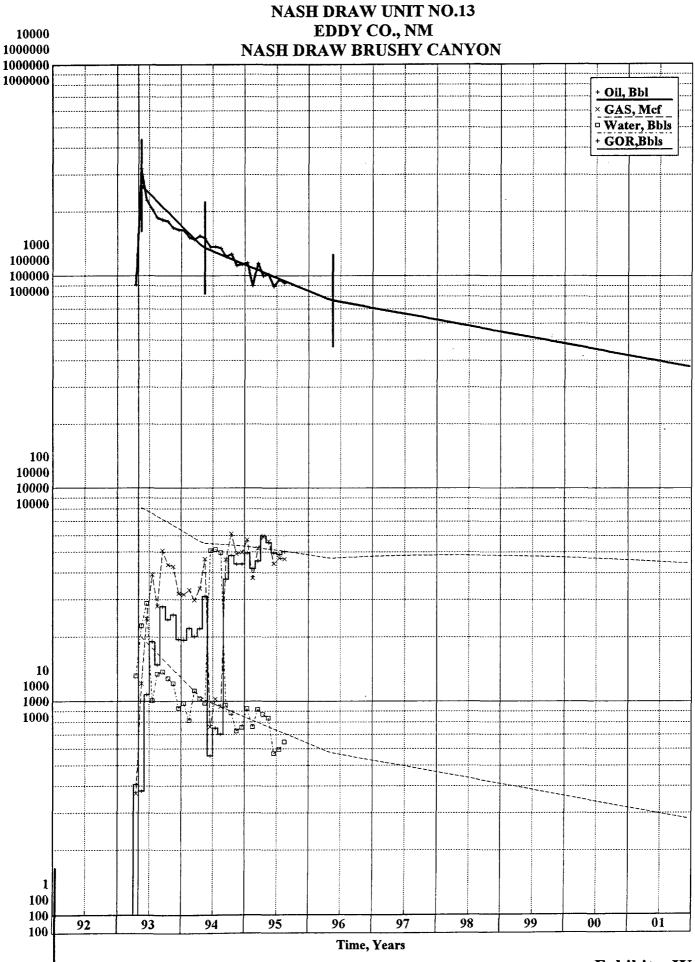
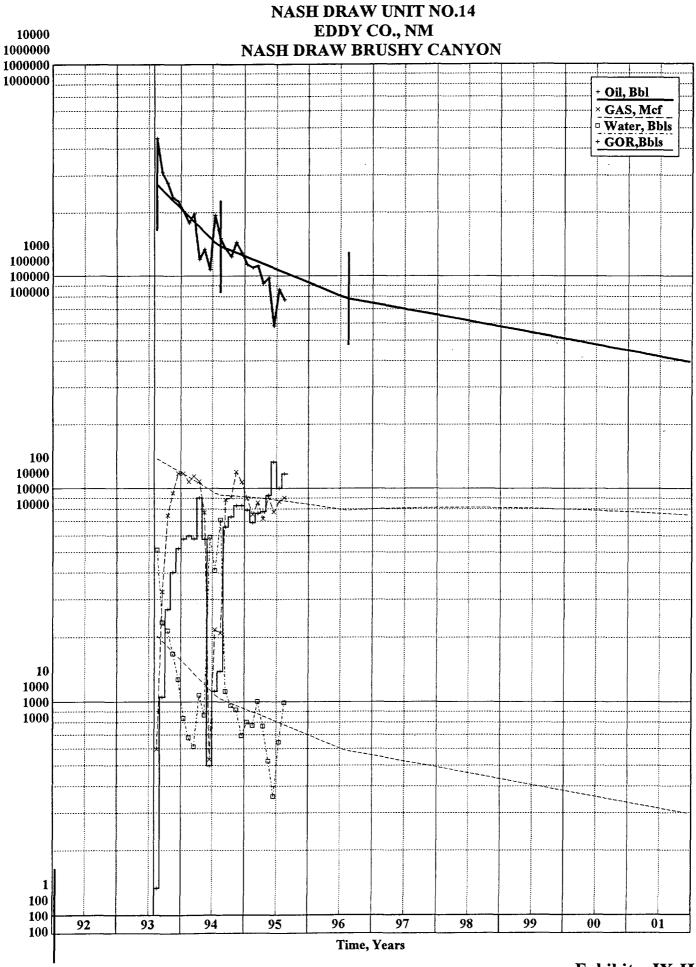
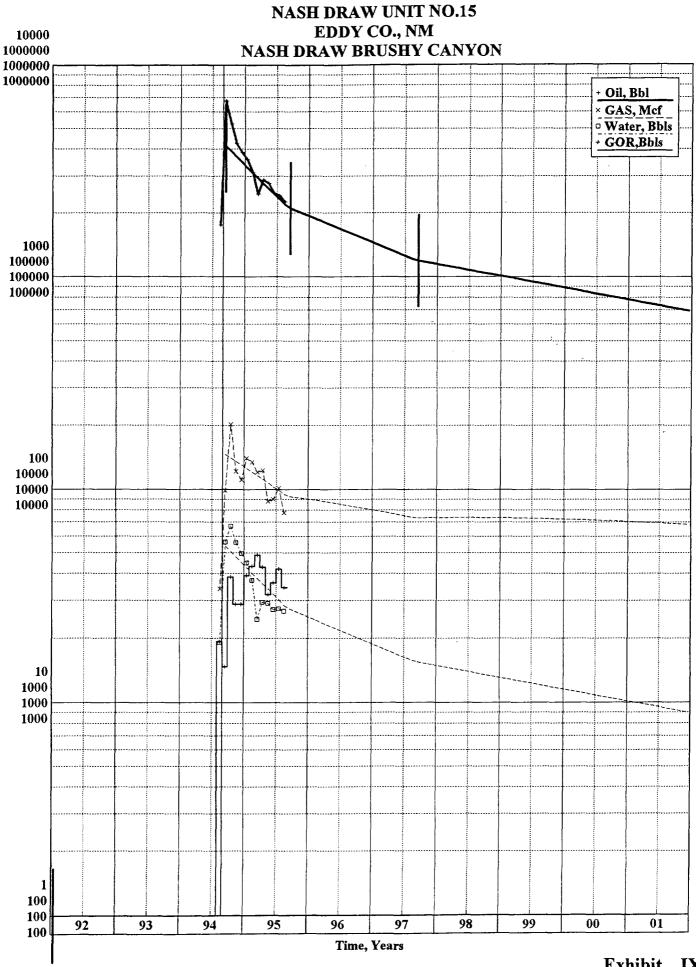


Exhibit IX-G





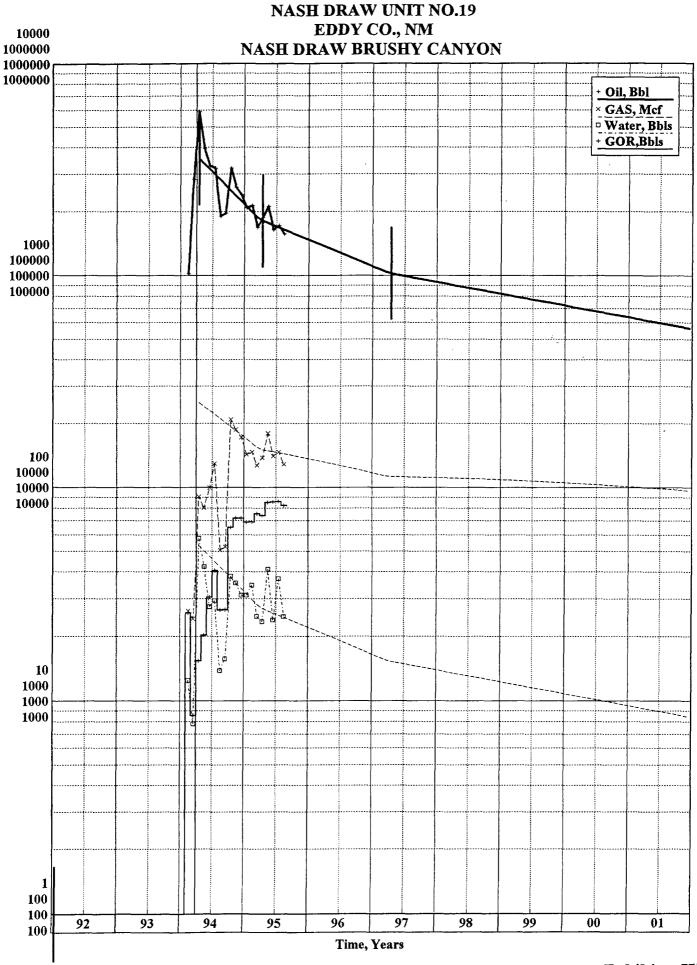
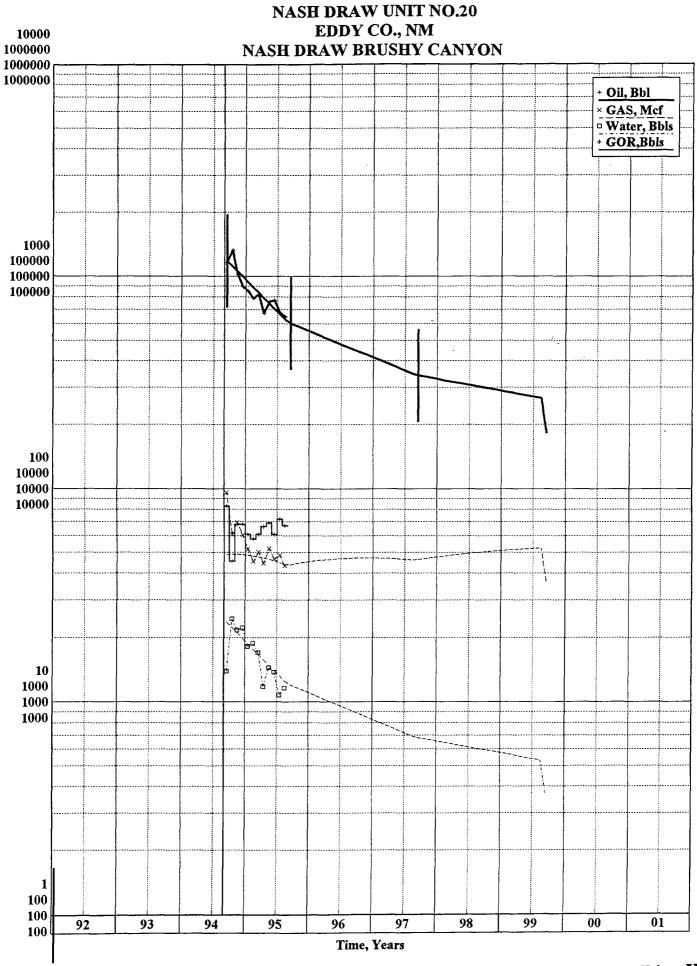
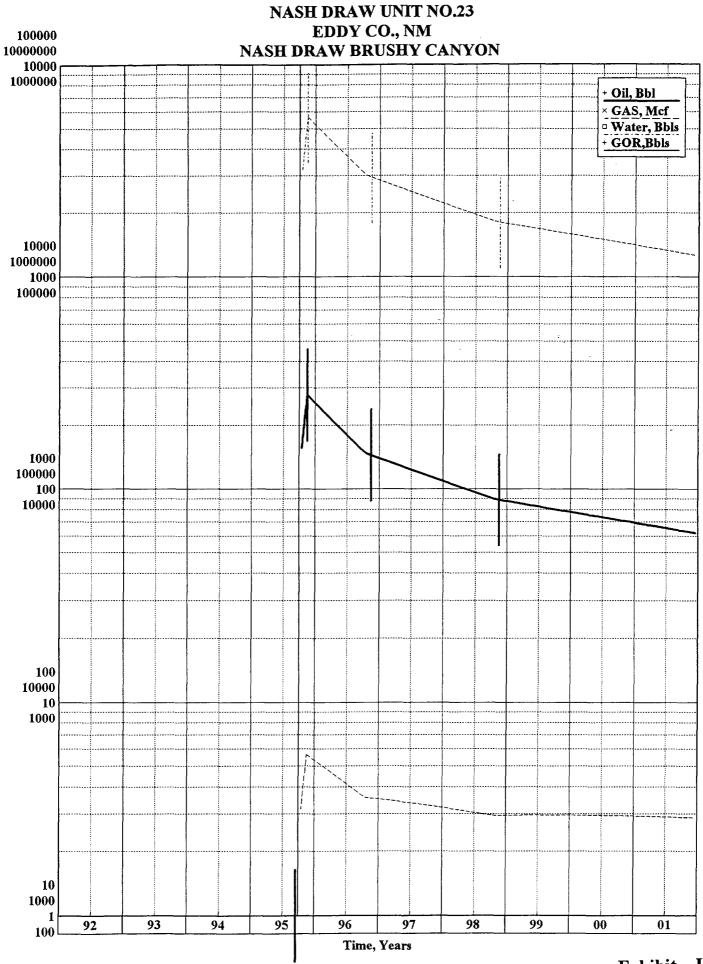


Exhibit IX-J





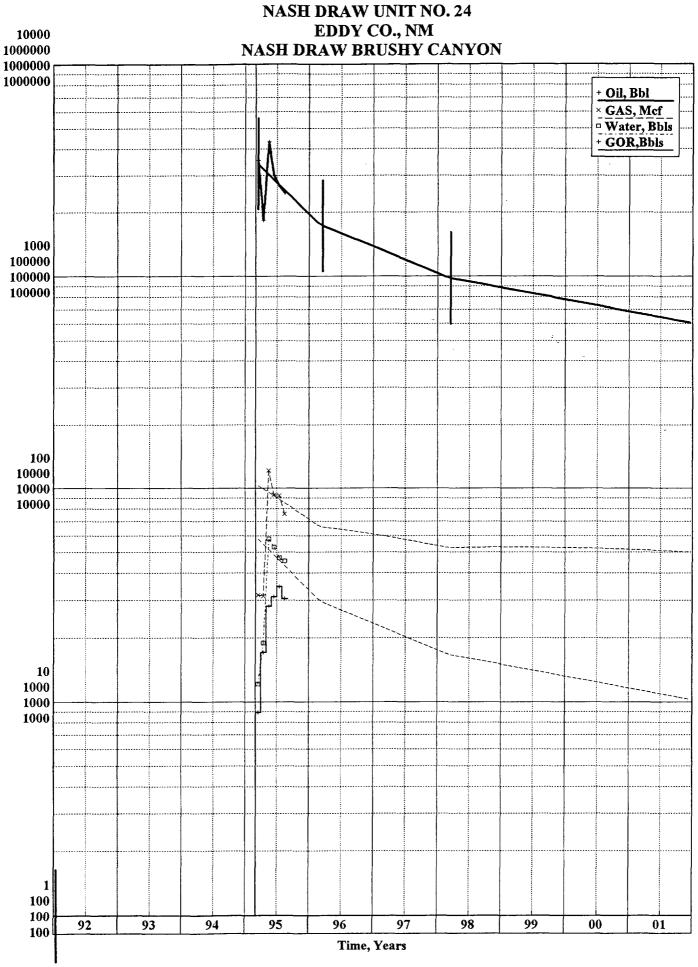
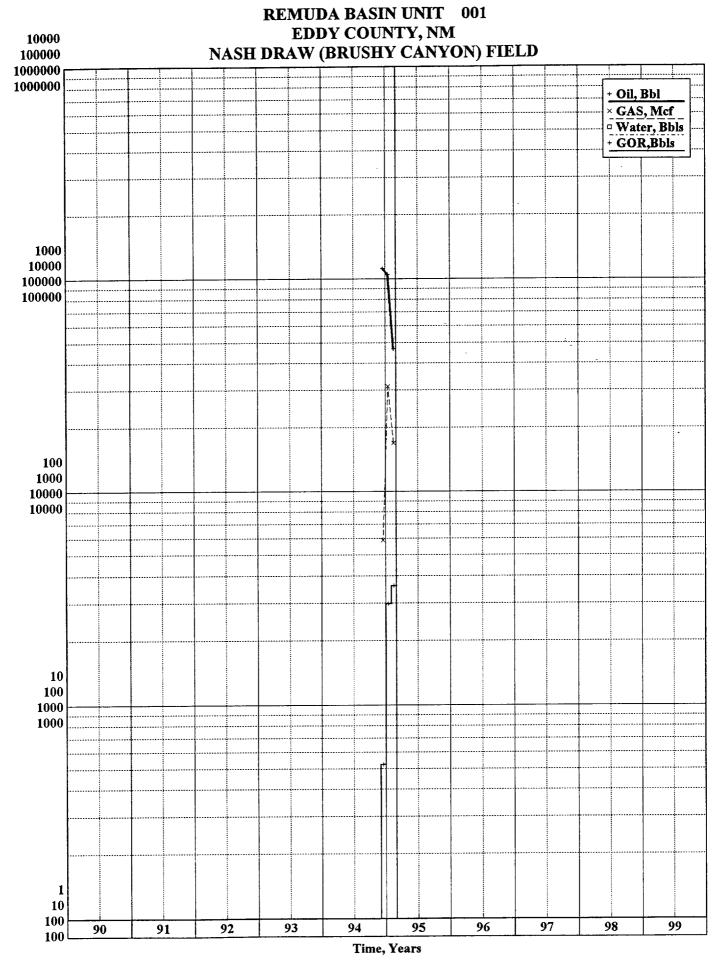
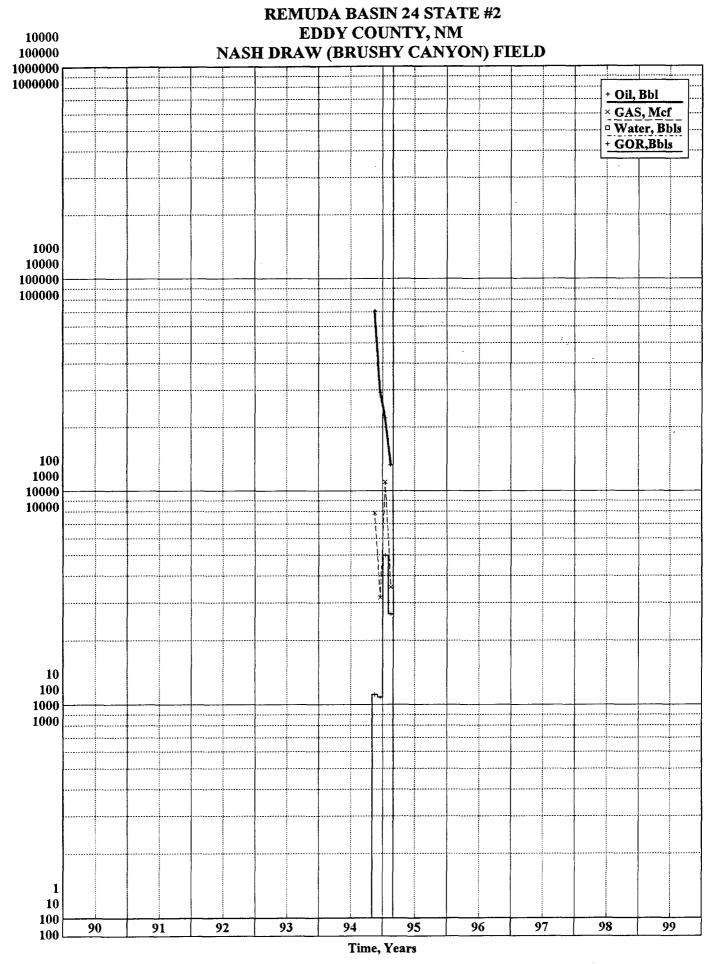


Exhibit IX-M





Practical Petroleum Reservoir Engineering Methods

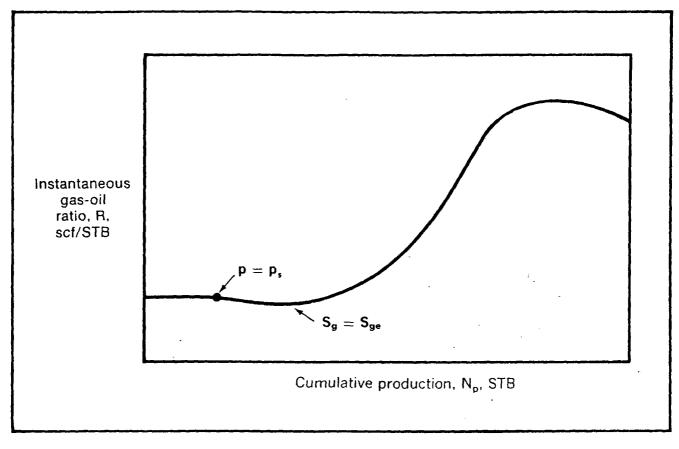
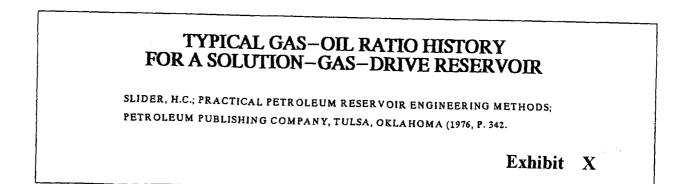


FIG. 6.8 Gas-oil ratio history for a solution-gas-drive reservoir.



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STRATA PRODUCTION Nash Unit No.19 RFLM 94007

SUMMARY OF PVT DATA

Reported Reservoir Conditions

Average Reservoir Pressure 2963 psig
Average Reservoir Temperature 117 °F

Pressure-Volume Relations

Saturation Pressure	2677	psig
Avg Single-Phase Compressibility	13.28	E-6 v/v/psi (5000 to 2677 psig)
Thermal Exp @ 5000 psig	1.03217	V at 117 °F / V at 68 °F

Differential Vaporization Data (at 2677 psig and 117 °F)

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Solution Gas/Oil Ratio	1,109	scf / bbl of residual oil at 60 °F	
Relative Oil Volume	1.568	bbl / bbl of residual oil at 60 °F	
Density of Reservoir Fluid	0.6627	gm/cc	

Reservoir Fluid Viscosity

0.372 cp at 2677 psig and 117 °F

<u> </u>		Separator Test Res	ults	·	
Separator C		Formation Volume Factor	Total Solution Gas/Oil Ratio	Tank Oil Gravity (°API at 60 °F)	
psig	°F	(A)	(B)		
30	69	1.542	1,064	42.7	

(A) Barrels of saturated oil per barrel of stock tank oil at 60 °F.

(B) Total standard cubic feet of gas per barrel of stock tank oil at 60 °F.

CORE LABORATORIES

Page 1

Exhibit XI-A

STRATA PRODUCTION Nash Unit No.19 RFLM 94007

DIFFERENTIAL VAPORIZATION

(at 117 °F)

Pressure psig	Solution Gas/Oil Ratio Rsd (A)	Relative Oil Volume Bod (B)	Relative Total Volume Btd (C)	Oil Density gm/cc	Deviation Factor Z	Gas Formation Volume Factor (D)	Incrementai Gas Gravity (Air=1.000)
b»2677	1,109	1.568	1.568	0.6627			
2450	1,020	1.528	1.609	0.6702	0.755	0.00511	0.746
2200	926	1.486	1.674	0.6783	0.764	0.00575	0.733
1950	834	1.446	1.769	0.6864	0.776	0.00658	0.722
1700	746	1.408	1.905	0.6945	0.789	0.00767	0.713
1450	659	1.372	2.106	0.7027	0.805	0.00916	0.708
1200	575	1,337	2.412	0.7109	0.823	0.01130	0.711
950	492	1.302	2.908	0.7193	0.844	0.01459	0.724
700	407	1.267	3.801	0.7281	0.869	0.02026	0.756
450	319	1.229	5,764	0.7377	0.898	0.03221	0.822
201	217	1.179	12.665	0.7494	0.936	0.07224	0.972
100	162	1.147	24.558	0.7562	0.957	0.13867	1.097
0	0 `@ 60 ℉	1.031 = 1.000		0.7887			1.524

Gravity of Residual Oil = 42.4 °API at 60 °F Density of Residual Oil = 0.8128 gm/cc at 60 °F

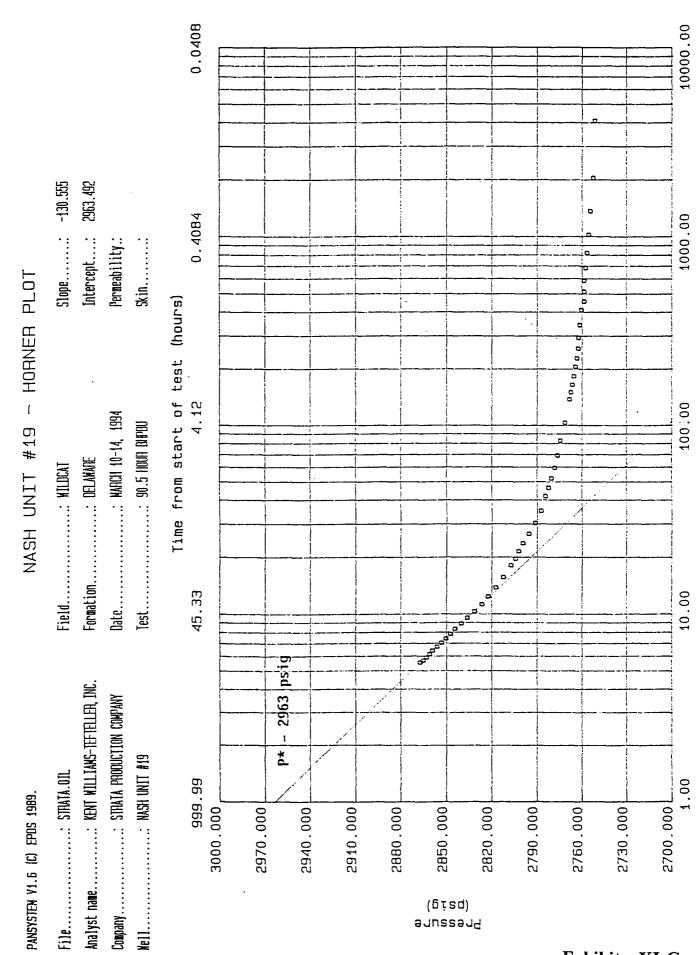
(A) Cubic Feet of gas at 15.025 psia and 60 °F per Barrel of residual oil at 60 °F.

(B) Barrel of oil at indicated pressure and temperature per Barrel of residual oil at 60 °F.

(C) Barrels of oil plus liberated gas at indicated pressure and temperature per Barrel of residual oil at 60 °F.

(D) Cubic Feet of gas at indicated pressure and temperature per Cubic Feet at 15.025 psia and 60 °F.

CORE LABORATORIES



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(Furdel) /de (En H AAR AA)

Exhibit XI-C

Np Bo +(Gp - Np Rs) Bg +(Wp - Wi - We) Bw - Gi Bg	(Bo - Boi) + (Rsi - Rs) Bg + mBoi Bg - Bgi + Boi (1+m) (Sw cw + cf) (pir - pr)	GAS FORMATION VOLUME FACTOR INITIAL GAS FORMATION VOLUME FACTOR OIL FORMATION VOLUME FACTOR INITIAL OIL FORMATION VOLUME FACTOR WATER FORMATION VOLUME FACTOR COMMATION VOLUME FACTOR	INITIAL SOLUTION GOR Exhibit XII-A WATER SATURATION WATER SATURATION WATER SATURATION Bradley, H.B., Petroleum Engineering Handbook, Society of Petroleum Engineers, Richardson, Texas, (1987), P.37-5. CUMMULATIVE WATER INJECTION Richardson, Texas, (1987), P.37-5. CUMMULATIVE WATER PRODUCED Richardson, Texas, (1987), P.37-5.
= N	(Bo -	Bgi GASF Bgi INITA Boi OILFG Bw WATE F FODM	R si INITIA S w WATE We CUMA Wi CUMA Wp CUMA

THE GENERAL MATERIAL BALANCE EQUATION

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Since there is no injection, water drive, gas cap and the effects of compressibility are negligible the equation reduces to:

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D

Rewriting this equation to arrive at r, fractional recovery of oil in place, yields: (substitute R p X N p for G p , R p cummulative produced gas-oil ratio)

$$r = \frac{Np}{N} = \frac{(Bo - Boi) + (Rsi - Rs) Bg}{Bo - (Rp - Rs) Bg}$$

Analysis of this equation indicates that all the terms except the produced gas-oil ratio, $\,{
m R}\,{
m p}$, are a function of pressure only, and are the properties of the reservoir fluids. As the nature of the fluid is fixed, it follows that the recovery, **r**, is fixed by the PVT properties of the reservoir fluid and produced gas-oil ratio.

Exhibit XII-B

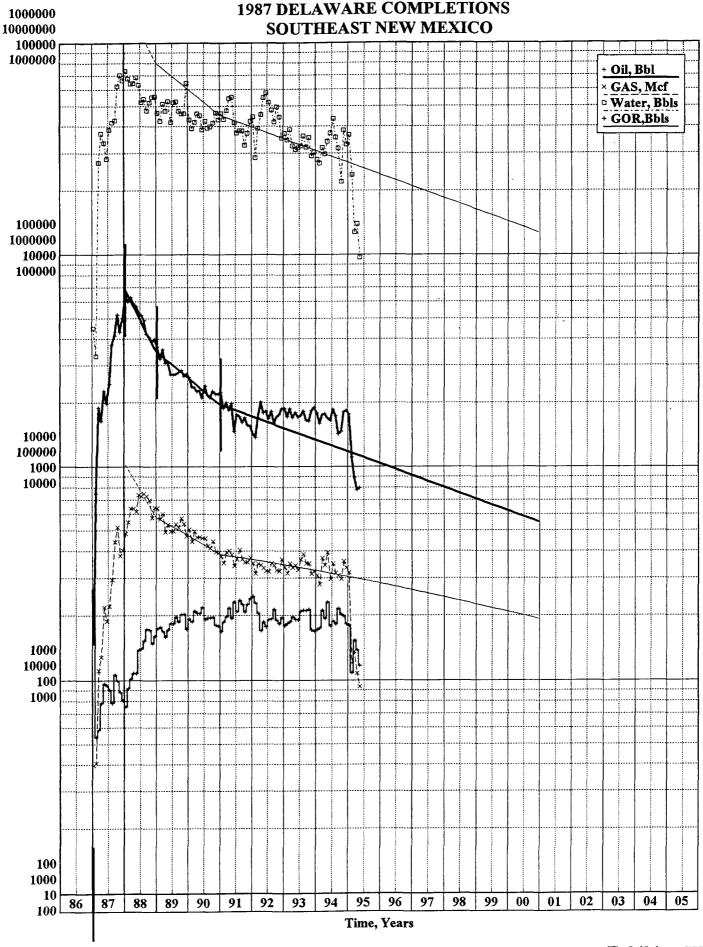
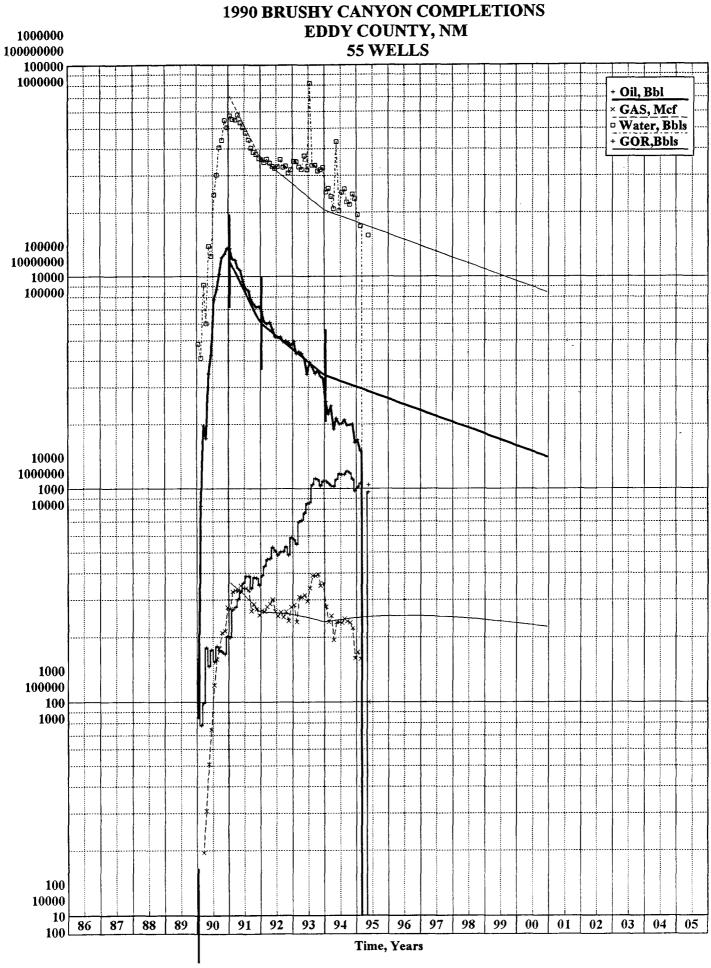


Exhibit XIII



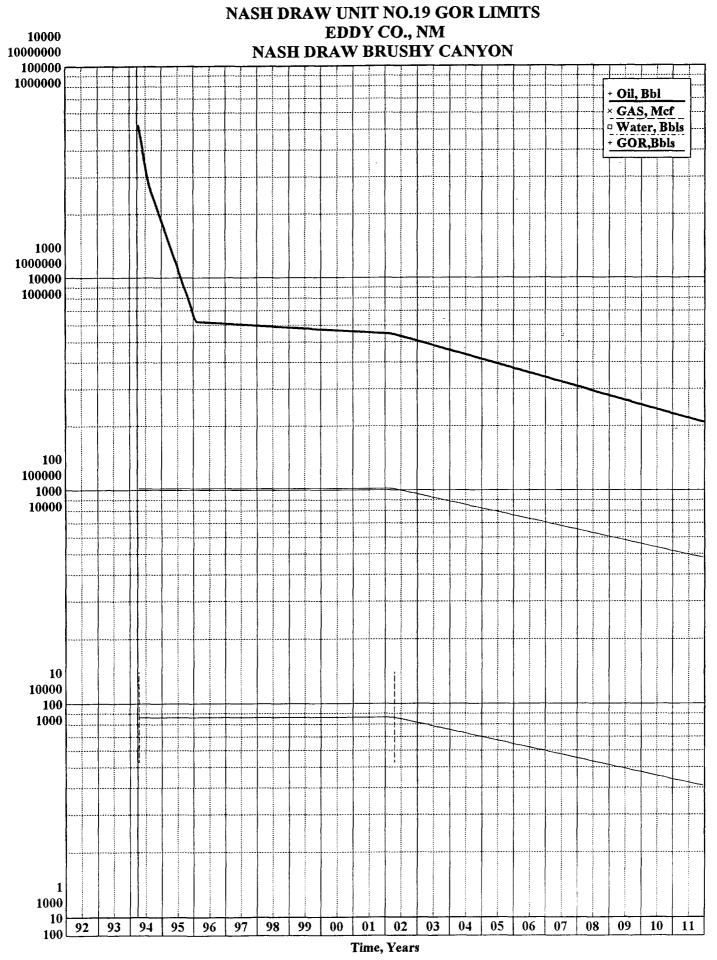


Exhibit XV-A

OGRE(R) V1.40 BTAX FILE NAME: ND19 (4) CASE NAME: NASH19CURTAILED CMD NAME: STDG1330(300)

101 NASH DRAW UNIT NO.19 GOR LIMITS 102 EDDY CO., NM 103 NASH DRAW BRUSHY CANYON 104 STRATA PRODUCTION CO

117 CASE \$STRALCOM

* 120 4 94 12 4 1 94 10 2

120 -	• • • • • • • • •									
	W.I. FRACTION	OP. COST (\$/W/MO)	OP. COST (\$/MO.)	ADV. TAX (PCT)	MAJOR PH. NAME	PROD DATE (MO/DY/YR)				
210	1.00000000	3310.00	.00	.939	GAS	4/ 1/94				
	PHASE NAME	CUM PROD (MUNITS)	REV. INT FRACTION	PRICE (\$/UNIT)	(PCT)		RATIO TO MAJOR PH			
221	OIL	.000	.80000000	17.540	8.958	1.0				
222	GAS	.000	.80000000	1.661	8.958	.0				
223	WATER	.000	1.00000000	170	.000	.0	.118			
	PH. NAME	CURVE TP	DECLINE%	QI RATE	QT RATE	CUM.	LIMIT	(MORY)	CALC	VALUE
410	GAS	FLAT	.000	284.000	X	8.000	YRS	D		
CALC	GAS	FLAT EN	ID= .000	284.000	284.000	8.000	YRS	D	829.280	MMCF
411	GAS	EXP	7,433	LAST	EL	х	х	D -		
CALC	GAS	EXP EN	ID≃ 7.433	284.000	92.333	22.547	YRS	D	1735.039	MMCF
	PH. NAME	RATIO PH	GRAPH TP	INIT U/U	END U/U	CUM.	LIMIT	DIVISOR		
460	OIL	GAS	LOG	.660	.330	4.000	MOS			
461	OIL	GAS	LOG	.330	.072	1.500	IYRS			
462	OIL	GAS	LOG	.072	.046	TO	LIFE			-
	INV NAME	INV.	POINT	(GORN)	TANG-M\$	INTANG-M\$	LSEHLD-MS	RISK FRAC	OVHD FLAG	
802	INVEST	-1.000	MOS	G	.000	600.000	.000			

FOOTNOTES:

-----905 TOTAL GAS = 227717 AS OF 958 906 TOTAL OIL = 47089 AS OF 958 907 TOTAL WATER = 55228 AS OF 958 NASH DRAW UNIT NO.19 GOR LIMITS EDDY CO., NM NASH DRAW BRUSHY CANYON STRATA PRODUCTION CO

DATE: 11/13/95 TIME: 16:13:36 FILE: ND19 GET#: 4

RESERVES AND ECONOMICS

AS OF APRIL 1, 1994

-END- MO-YR			NET PRO OIL, MBBL		OIL	GAS \$/M	NET OPER REVENUES	ERATIONS, SEV+ADV TAXES	MS NET OPER EXPENSES	CAPITAL COSTS, M\$	CASH FLOW BTAX, M\$	10.00 PCT CUM. DISC BTAX, M\$
							•••••					
12-94	28,073	77.745	22.458	62.196	17.54	1.66	495.665	48.774	29.790	600.000	-182.899	-197.543
12-95	14.079	103.660	11.263	82.928			333.221	32.880	39.720	.000	260.621	33.806
12-96	7.423	103.660	5.938	82.928	17.54	1.66	239.821	23.716	39.720	.000	176.385	176.146
12-97	7.238	103.660	5.790	82.928			237.225	23.461	39.720	.000	174.044	303.829
12-98	7.084	103.660	5.667	82.928	17.54	1.66	235.067	23.249	39.720	.000	172.098	418.607
12-99	6.932	103.660	5.546	82.928	17.54	1.66	232.945	23.041	39.720	.000	170.184	521.790
12- 0	6.784	103.660	5.427	82.928	17.54	1.66	230.858	22.836	39.720	.000	168.302	614.555
12- 1	6.638	103.660	5.310	82.928	17.54	1.66	228.805	22.635	39.720	.000	166.450	697.959
12-2	6.358	101.451	5.086	81.161	17.54	1.66	221.985	21.963	39.720	.000	160.302	770.980
12- 3	5.774	94.143	4.619	75.314	17.54	1.66	204.230	20.207	39.720	.000	144.303	830.738
12- 4	5.230	87.146	4.184	69.717	17.54	1.66	187.442	18.548	39.720	.000	129.174	879.368
12-5	4.738	80,668	3.790	64.534	17.54	1.66	172.053	17.026	39.720	.000	115.307	918.831
12-6	4.292	74.672	3.434	59.738	17.54	1.66	157.962	15.632	39.720	.000	102.610	950.756
12-7	3.888	69.122	3.110	55.298	17.54	1.66	145.015	14.352	39.720	.000	90.943	976.479
12-8	3,522	63.984	2.818	51.187	17.54	1.66	133.169	13.181	39.720	.000	80.268	997.118
12-9	3.190	59.228	2,552	47.382	17 54	1 66	122.278	12,104	39,720	.000	70.454	1013,587
12-10	2.890	54.825	2.312	43.860		1.66	112.305	11.117	39.720	.000	61.468	1026.649
12-11	2.618	50.750	2.094	40.600			103.150	10.212	39.720	.000	53.218	1036.930
12-12	2.372	46.978	1.898	37.582			94.775	9.383	39.720	.000	45.672	1044.951
12-13	2.148	43.487	1.718	34.790		1.66	87.050	8.618	39.720	.000	38.712	1051.132
12-14	1.946	40.253	1.557	32.202	17.54	1.66	79.992	7.920	39.720	.000	32.352	1055.828
12-15	1.763	37.262	1.410	29.810	17.54	1.66	73.499	7.278	39.720	.000	26.501	1059.325
12-16	1,285	27.705	1.028	22.164	17.54	1.66	54.290	5.377	31.658	.000	17.255	1061.415
S TOT	136.265	1735.039	109.009	1388.031	17.54	1.66	4182.802	413.510	895.568	600.000	2273.724	1061.415
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1061.415
TOTAL	136.265	1735.039	109.009	1388.031	17.54	1.66	4182.802	413.510	895.568	600.000	2273.724	1061.415
CUM.	.000	.000		NET OIL	REVENUE	S (M\$)		1912.017		PRESENT W	ORTH PROFIL	E
				NET GAS				2305.518	DISC	PW OF NET	DISC	PW OF NET
ULT.	136.265	1735.039		TOTAL	REVENUE	S (M\$)		4182.802	RATE	BTAX, M\$	RATE	BTAX, M\$
BTAX R	ATE OF RETUR	N (PCT)	70.76	PROJECT	LIFE (Y	(EARS)		22.547	.0	2273.724	30.0	353.019
	AYOUT YEARS		1.45	DISCOUNT		-		10,000	2.0	1912.570	35.0	274.918
	AYOUT YEARS	(DISC)	1.60	GROSS OI				1.000	5.0	1507.397	40.0	212.748
	ET INCOME/IN	•	4.79	GROSS GA				.000	8.0	1214.003	45.0	162.041
		VEST (DISC)		GROSS WE				1.000	10.0	1061.415	50.0	119.818
									12.0	934.287	60.0	53.320
INITIA	L W.I. FRACT	TON	1,000000	INITIAL	NET OIL	FRACT	ION	.800000	15.0	779.812	70.0	3.028
FINAL	W.I. FRACT		1.000000		NET OIL			.800000	18.0	657.627	80.0	-36.592
	TION START D		4- 1-94	INITIAL				.800000	20.0	589.673	90.0	-68.805
	IN FIRST LI		9.00		NET GAS			.800000	25.0	454.084	100.0	-95.644
WATER	GROSS PROD). (MU)	204.301	WATER	NET PRO	DUCTIC	N (MU)	204.301	WATER	NET REVENU	ES (M\$)	-34.733

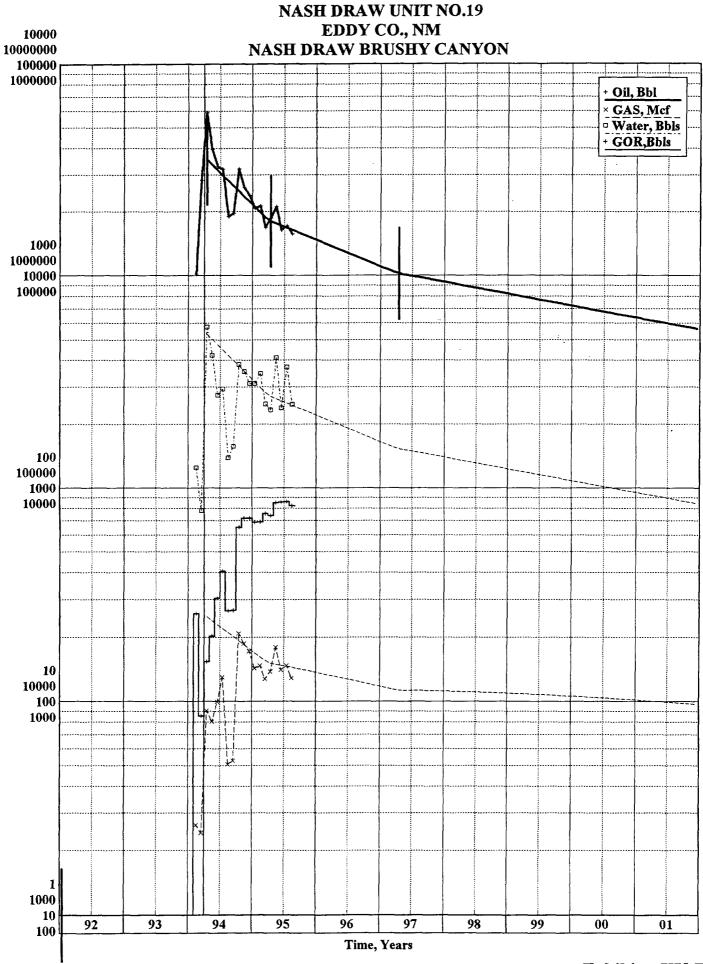


Exhibit XV-B

OGRE(R) V1.40 BTAX FILE NAME: ND19 (1) CASE NAME: NASH19 CMD NAME: STDC4732(300)

101 NASH DRAW UNIT NO.19 102 EDDY CO., NM 103 NASH DRAW BRUSHY CANYON 104 STRATA PRODUCTION CO

117 CASE \$STRALCOM * 120 4 94 12 4 1 94 10 2

	W.I. FRACTION	OP. COST OP. COS (\$/W/MO) (\$/MO.)		MAJOR PH. NAME	PROD DATE (MO/DY/YR)				
210	1.00000000	3310.00 .0	0.939	OIL	4/ 1/94				
	PHASE NAME	CUM PROD REV. IN (MUNITS) FRACTIO		SEV. TAX (PCT)	NO. OF WELLS	RATIO TO MAJOR PH			
221	OIL	.000 .8000000		8.958	1.0				
222	GAS	.000 .800000	0 1.661	8.958	.0				
223	WATER	.000 1.0000000	0170	.000	.0	1.500			
	PH. NAME	CURVE TP DECLINE		QT RATE		LIMIT	(MORY)	CALC	VALUE
(10		5VD 50.00		X	12.000	MOS		********	
410	OIL	EXP 50.00					D	74 505	
CALC	OIL	EXP END= 50.00		60.000	1.000	YRS	D: D -	31.595	MBBL
411	OIL	EXP 25.00		X	24.000	IMOS		(1.000	
CALC	OIL	EXP END= 25.00		33.750	3.000	YRS		- 64.900	MBBL
412	OIL	EXP 12.00		EL	X	X	D		
CALC	OIL	EXP END= 12.00	0 33.750	8.774	13.538	YRS	D	136.213	MBBL
	PH. NAME	RATIO PH GRAPH T	P INIT U/U	END U/U	CUM.	LIMIT	DIVISOR		
460	GAS	OIL LIN	7.000	25.000	то	LIFE			r
	INV NAME	INV. POINT	(GORN)	TANG-M\$	INTANG-M\$	LSEHLD-M\$	RISK FRAC	OVHD FLAG	
802	INVEST	-1.000 MOS	G	.000	600.000	.000			

FOOTNOTES:

905 TOTAL GAS = 227717 AS OF 958 906 TOTAL OIL = 47089 AS OF 958 907 TOTAL WATER = 55228 AS OF 958 NASH DRAW UNIT NO.19 EDDY CO., NM NASH DRAW BRUSHY CANYON STRATA PRODUCTION CO

RESERVES AND ECONOMICS

L. A.

AS	OF	APRIL	1,	1994
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							OP					10.00 PCT
-END-			NET PRO			GAS	NET OPER	SEV+ADV	NET OPER	CAPITAL	CASH FLOW	
	OIL, MBBL	GAS, MMCF	OIL, MBBL	GAS, MMCF	\$/B	\$/M	REVENUES	TAXES	EXPENSES	COSTS, M\$	BTAX, M\$	BTAX, M\$
*					47 51						04 0/2	400.05/
12-94	25.617	192.091	20.494	153.673			608.184	60.256 51.961	29.790 39.720	600.000	-81.862 433.081	-100.054 284.386
12-95	20.752	179.752	16.602	143.802			524.762		39.720	.000 .000	334.160	
12-96	15.338	153.249	12.270	122.599			414.942	41.062	39.720		271.991	554.049 753.588
12-97	12.003	135.887	9.602	108.710			345.925	34.214		.000		
^{##} 12-98	10.507	132.916	8.406	106.333	17.54	1.60	321.381	31.773	39.720	.000	249.888	920.246
12-99	9.246	129.258	7.397	103.406			299.142	29.562	39.720	.000	229.860	1059.610
12- 0	8.136	124.565	6.509	99.652			277.615	27,425	39.720	.000	210.470	1175.617
12- 1	7.160	119.137	5.728	95.310	17.54	1.66	256.953	25.376	39.720	.000	191.857	1271.752
12-2	6.301	113.218	5.041	90.574			237,255	23.422	39.720	.000	174.113	1351_064
12- 3	5.544	107.003	4.435	85.602	17.54	1.66	218.561	21.571	39.720	.000	157.270	1416.191
	4.880	100.650	3.904	80.520	17.54	1.66	200.976	19,831	39,720	.000	141.425	1469.433
<u></u> 12- 4 12- 5	4.294	94.282	3.435	75.426			184.438	18.194	39.720	.000	126.524	1512.735
12- 6	3.778	87.991	3.022	70.393			168,966	16.664	39,720	.000	112.582	1547,762
12-7	2.657	65.027	2.126	52.022			123.021	12.131	31.318	.000	79.572	1570,496
		••••••								-		
Es tot	136.213	1735.026	108.971	1388.022	17.54	1.66	4182.121	413.442	537.748	600.000	2630.931	1570.496
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	1570.496
	136.213	1735.026	108.971	1388.022	17.54	1.66	4182.121	413.442	537.748	600.000	2630.931	1570.496
CUM.	.000	.000		NET OIL F		S (M\$)		1911.351		PRESENT W	ORTH PROFIL	E
				NET GAS F	EVENUE	S (M\$)		2305.505	DISC	PW OF NET	DISC	PW OF NET
ULT.	136.213	1735.026		TOTAL F	EVENUE	S (M\$)		4182.121	RATE	BTAX, M\$	RATE	BTAX, M\$
BTAX R	ATE OF RETUR	N (PCT)	100.00	PROJECT L	IFE (Y	EARS)		13.538	.0	2630.931	30.0	749.231
	AYOUT YEARS		0/	DISCOUNT				10.000	2.0	2345.665	35.0	644.324
BTAX P	AYOUT YEARS	(DISC)	1.01	GROSS OIL	WELLS			1.000	5.0	1997.834	40.0	558.476
BTAX N	ET INCOME/IN	VEST	5.38	GROSS GAS	WELLS	;		.000	8.0	1722.867	45.0	486.914
BTAX N	ET INCOME/IN	VEST (DISC)	3.62	GROSS WEL	LS.			1.000	10.0	1570.496	50.0	426.301
									12.0	1437.903	60.0	329.028
	L W.I. FRACT		1.000000	INITIAL N				.800000	15.0	1269.029	70.0	254.134
FINAL	W.I. FRACT		1.000000			FRACT		.800000	18.0	1128.749	80.0	194.447
	TION START D		4- 1-94	INITIAL N				.800000	20.0	1047.936	90.0	145.576
MONTHS	IN FIRST LI	NE	9.00	FINAL N	IET GAS	FRACT	IUN	.800000	25.0	880.222	100.0	104.693
WATER	GROSS PROD	. (MU)	204.320	WATER N	IET PRO	DUCTIO	N (MU)	204.320	WATER	NET REVENU	ES (M\$)	-34.735

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