6/28/82

LOS MEDANOS (MORROW) AREA

K. E. BUCY

A study of the subject field area was recently undertaken to determine the proper participating area(s) for JRU Nos. 4 and 7. Open hole logs, pressure data, and production information were incorporated in the analysis.

LOG ANALYSIS

Based on Gamma Ray-Porosity logs, the top of the Morrow interval occurs at 13,278' (- 9,959') in JRU No. 4 and 13,453' (-10,115') in JRU No. 7. JRU No. 4 is perforated in 4 discreet intervals: 13865-879', 13886-896', 14073-088', and 14110-114'. Well No. 7 is completed in 7 separate sands: 14062-074', 14086-088', 14094-099', 14168-178', 14234-244', 14470-480', and 14522-526'. Of the many sand lenses, only two appear at the same stratigraphic position in these wells. They are the intervals 13886/14062 and 14073/14234 in JRU No. 4/JRU No. 7, respectively. Due to the lenticular nature of the Morrow sands, the appearance of sands at similar stratigraphic positions does not preclude the possibility that they are separated at some point between the wells. In fact, one would expect an occasional correlation due simply to the random deposition of the sands. A truer test of continuity lies in a comparison of pressure data.

PRESSURE DATA

The original BHP on JRU No. 4 was 6129 psig @ 13,990' (measured by Amerada bombs during 4 point test on 9/9/73). Seven additional data points have been taken during the well's life. All of this information has been tabulated and plotted as BHP/Z vs cumulative production. Note that the data is scattered as a result of the inaccurate

Los Medanos (Morrow) Area, Page 2

calculation of BHP by taking 24-hour surface shut in pressures. Due to the low permeability in the Morrow, 24 hours is not sufficient shut in time to allow the reservoir pressure to stabilize. In addition, the calculations assume a continuous gas phase in the tubing, thus neglecting the higher potential BHP which would result from some liquid accumulation. Regardless, the plot does indicate a general trend, and when coupled with decline curve analysis, yields a reasonable estimate of reserves. A plot of BHP/Z vs cumulative production for JRU No. 7 shows a similar scatter of data for the same reasons. Again, a reasonable reserve figure is estimated by combination with decline curve calculations.

While the data scatter masks any interpretation of interference caused by drainage, the initial pressure information on JRU No. 7 indicates that it was completed in zones that were at virgin reservoir pressure. This in itself is strong evidence against drainage by Well No. 4. JRU No. 7 was completed in July, 1975, two years subsequent to the completion of JRU No. 4. The measured BHP @ 13,870' was 6311 psig, 182 psi <u>higher</u> than the original BHP in No. 4. In the interim, JRU No. 4 had produced 2.99 BCF of gas from the Morrow. If the wells were producing from a common source of supply, it would have been anticipated that JRU No. 7 would have experienced substantial pressure drawdown.

PRODUCTION DATA

As previously mentioned, the production vs time information (decline curve) was analyzed to determine ultimate recovery. The curves were also studied to determine if interference could be detected as a result of producing Well No. 7 from the Morrow. Since JRU No. 4 was

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Los Medanos (Morrow) Area, Page 3

completed two years prior to the completion of No. 7, an increase in decline rate would be expected when the newer well was put on line. This phenomenon has not been noted on the decline curve. In fact, following a workover in mid-1977, the decline rate on JRU No. 4 actually <u>decreased</u> from 44% to 24%/year. JRU No. 7 has experienced a constant 20%/year decline since inception.

CONCLUSIONS

JRU Nos. 4 and 7 produce from separate sources of supply within the Morrow interval; therefore, each well should be assigned a separate participating area. In keeping with previously documented information by several operators and New Mexico Oil Conservation Division spacing regulations, I recommend standup 320-acre areas be assigned, i.e. W/2 Section 6 - JRU No. 4, E/2 Section 6 - JRU No. 7.

> Keith E. Bucy Senior Production Engineer

KEB:gp

MORROW PRESSURE DATA

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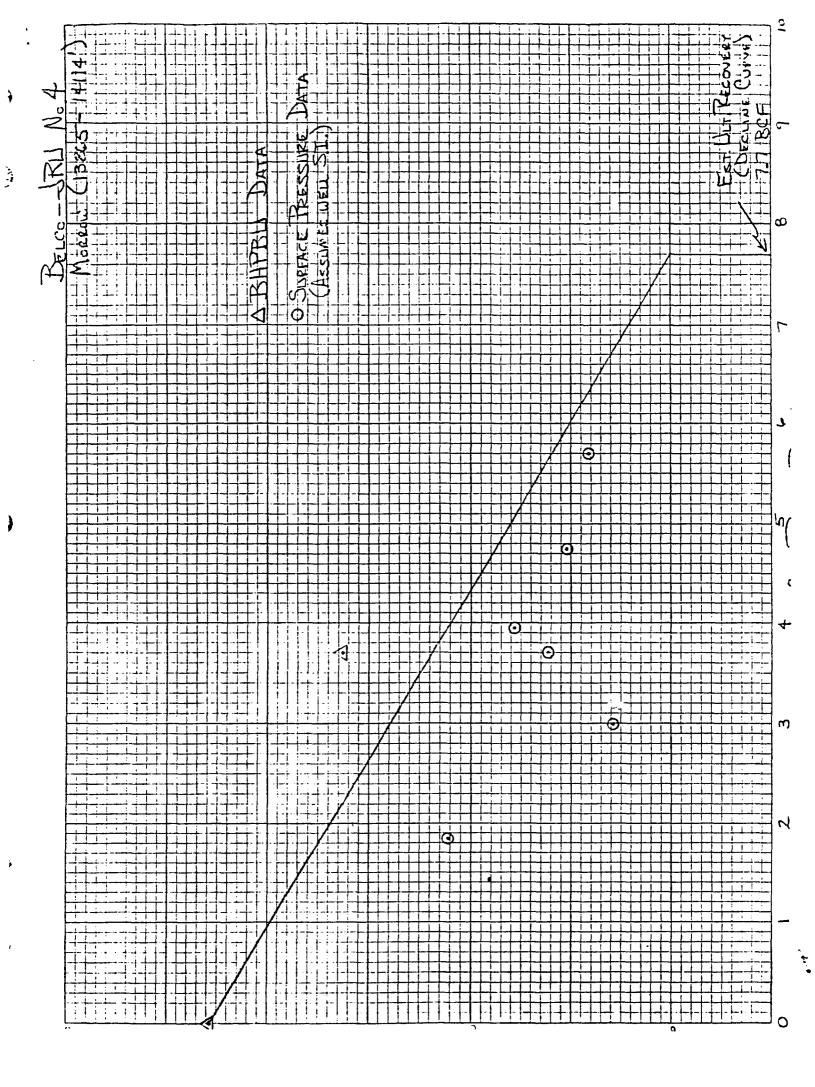
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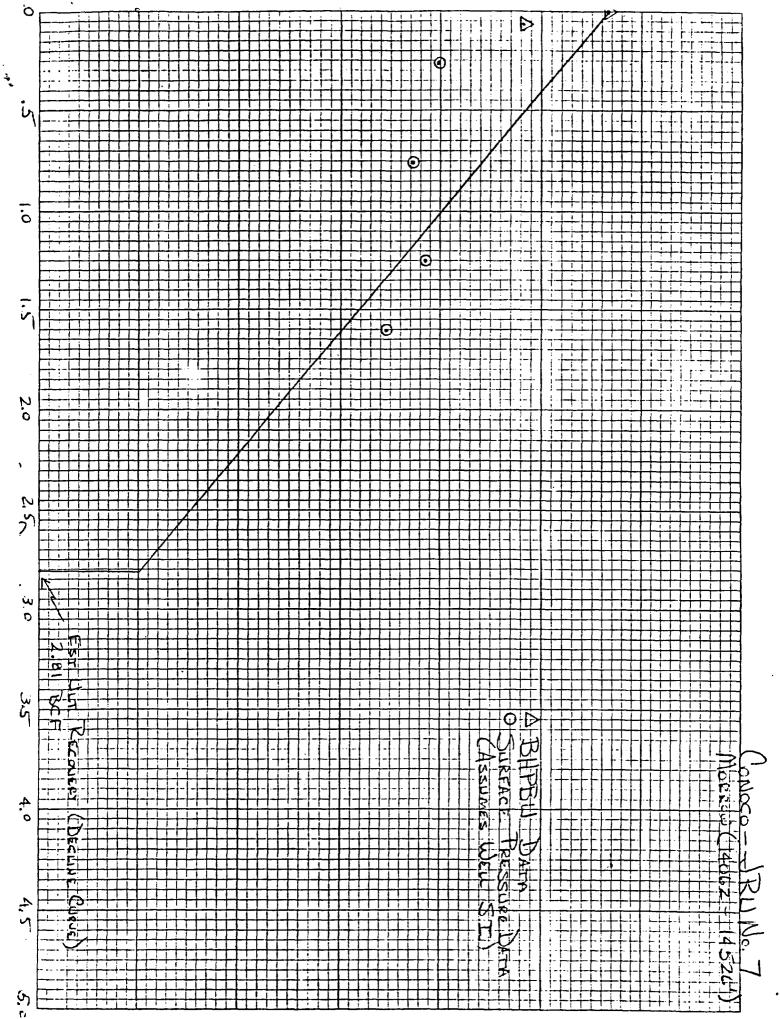
<u>JRU NO. 4</u>

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DATE	PRESSURE WELLHEAD	, PSIA BHP	BHP/Z	CUMULATIVE PROD., BCF	SOURCE
9/9/73		6144 (13990')	5580	0	4 pt test
11/3/74	2213	2989	3214	1.85	Dwight's
7/12/75	1113	1484	1589	2.99	Dwight's
4/13/76		4163 (13600')	4261	3.69	96 hr BHPBU
7/12/76	1663	2238	2424	3.71	Dwight's
9/14/77	1763	2376	. 2576	3.95	Dwight's
9/20/78	1413	1895	2044	4.75	.Dwight's
9/21/80	1260	1685	1812	5.7	Dwight's
JRU NO. 7					
7/75	. 	6311 (13870')	5670	0	BHPBU
2/24/76		4898'	4810	0.07	BHPBU
7/16/76	2960	3816	3993	0.27	Dwight's
7/14/77	2698	3488	3704	0.76	Dwight's
8/2/79	2840	3666	3864	1.25	Dwight's
8/22/80	2497	3233	3467	1.61	Dwight's





NOL REUFFEL & ESSER CO. MADE IN USA

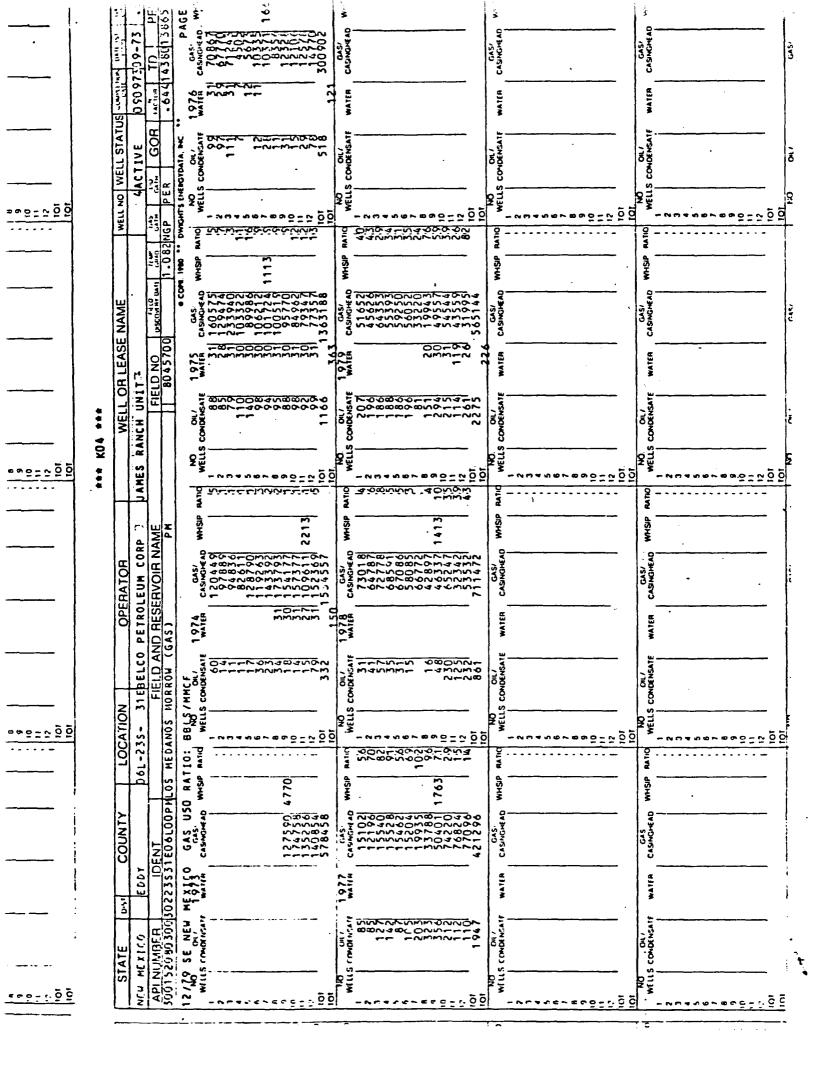
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30-82 Water DDLS/	23053				<u></u>								PAGE NO	2876
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FROM RICHARDSON, TEXAS 76081

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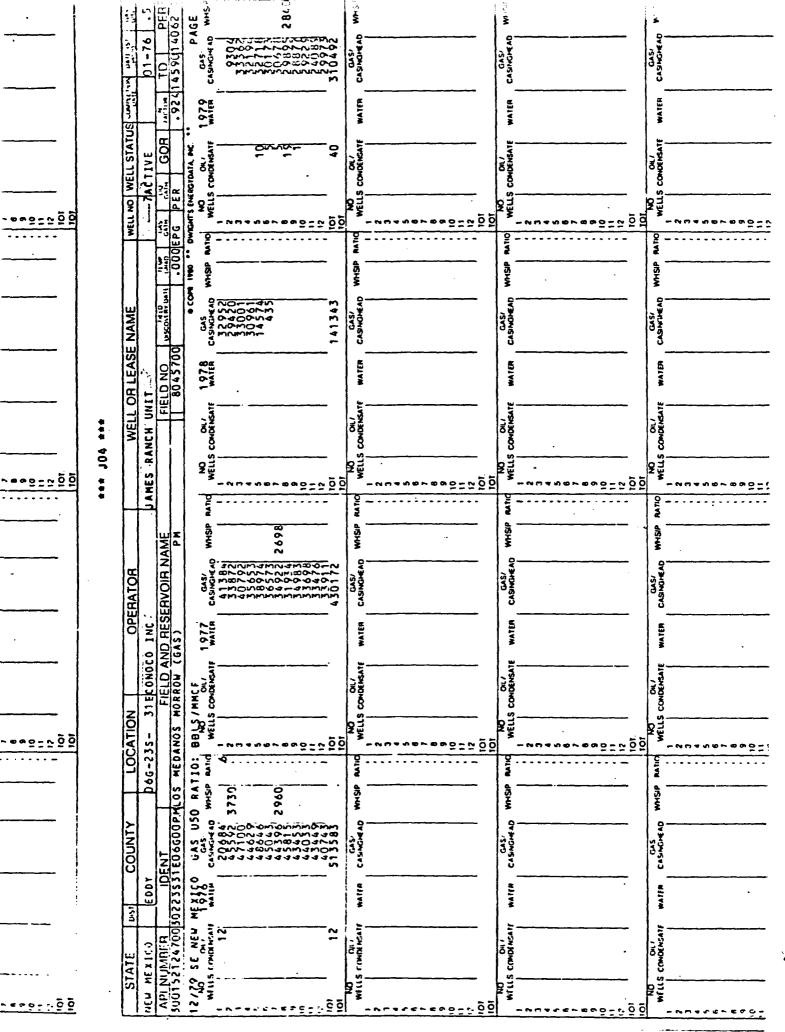
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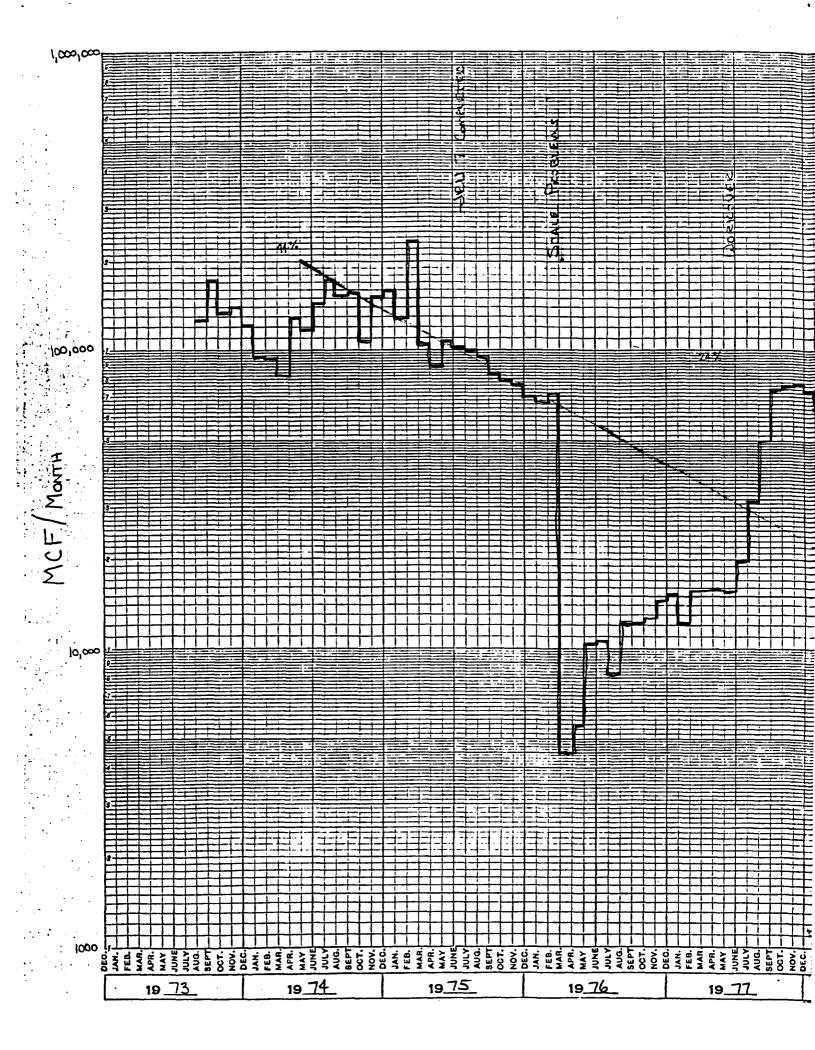
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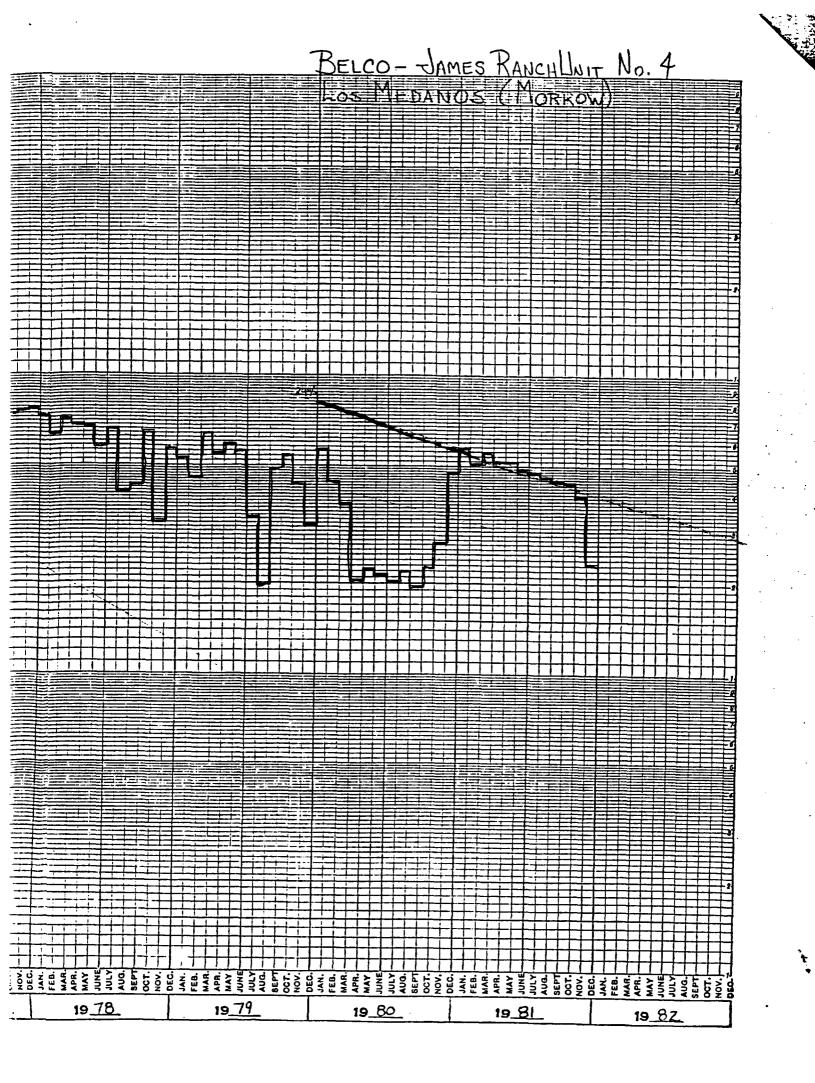
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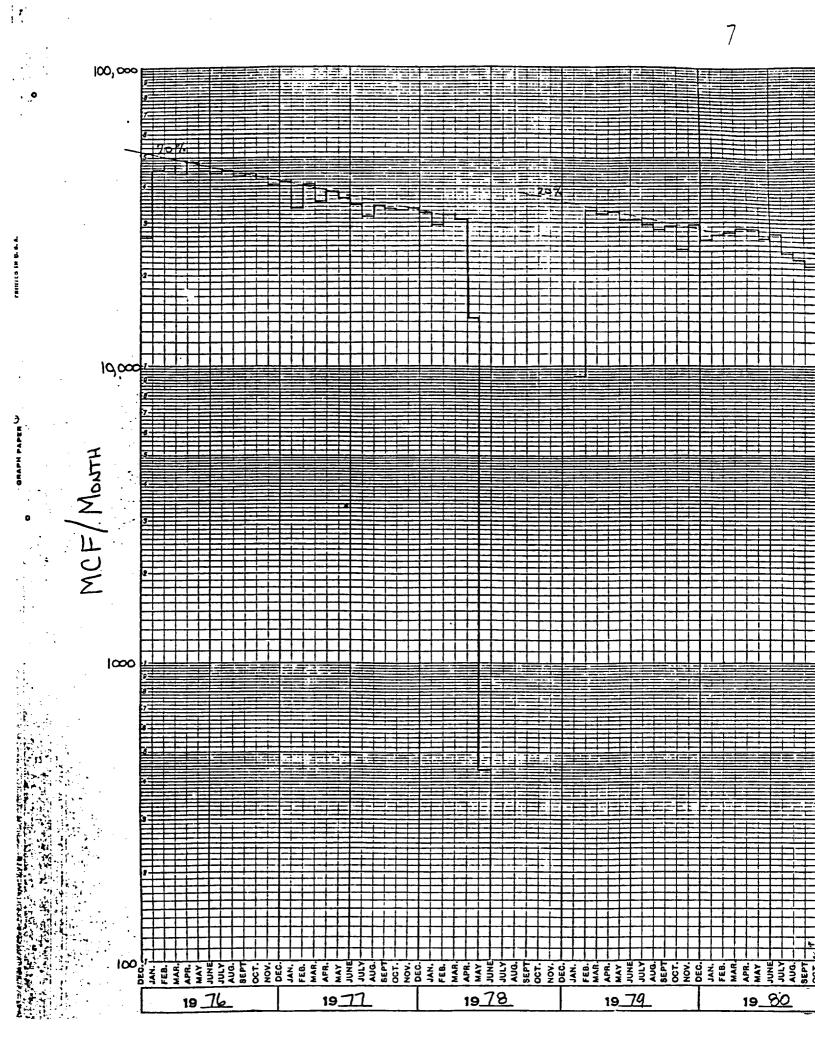
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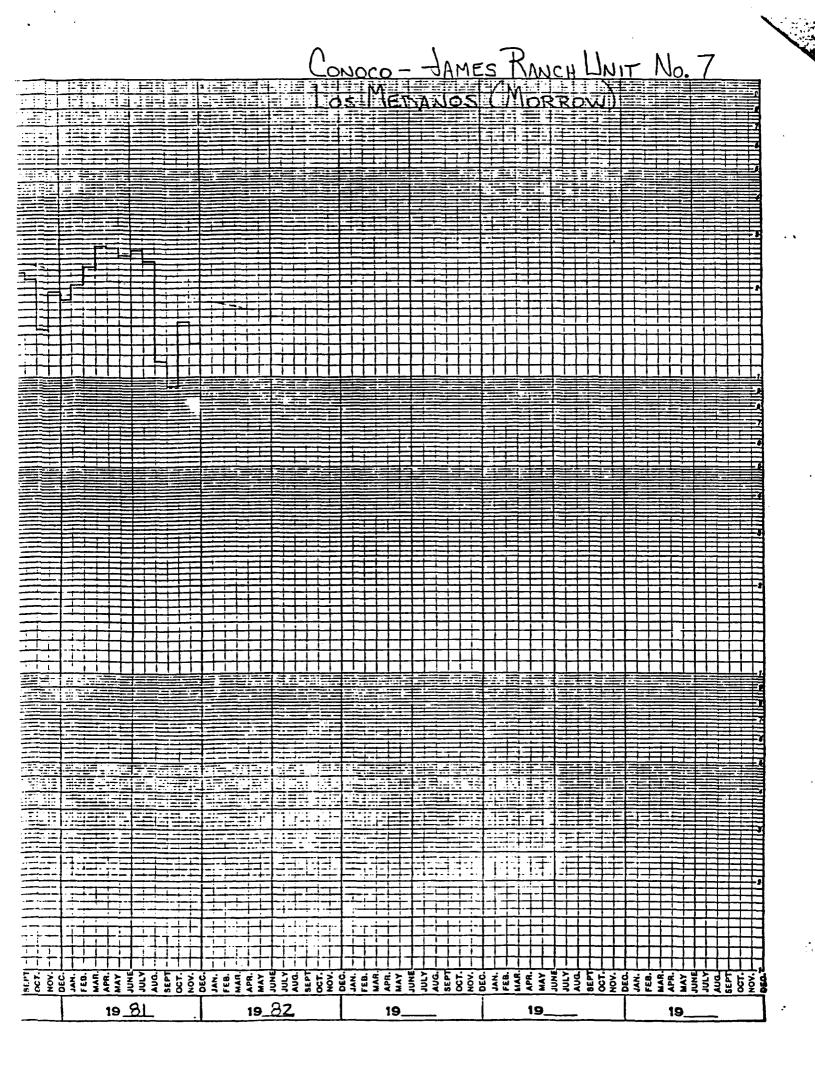
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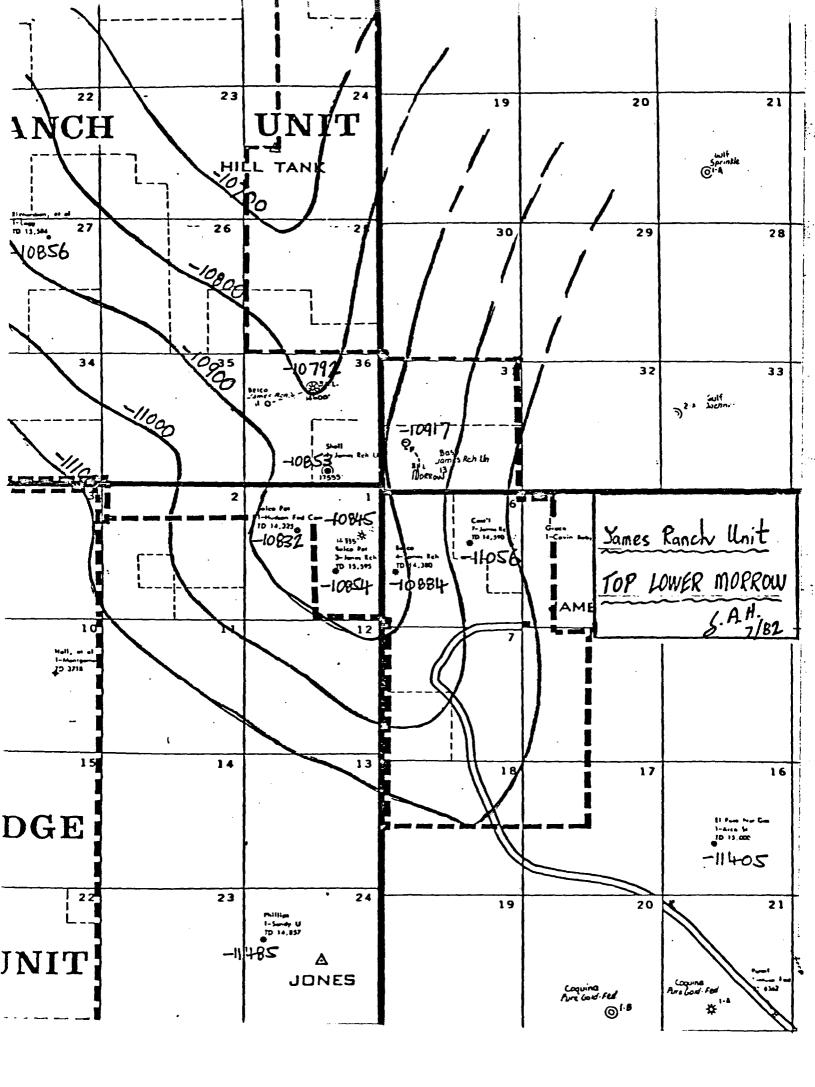


Exhibit "C" First Revision Morrow Formation Participating Area, James Ranch Unit Agreement, Eddy County, New Mexico

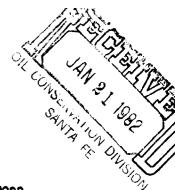
Spudded: 6-30-74 IP: 1-19-76; O BO, O BW, 2300 MCFGPD FTP 700#; CP 600#; 18/64" choke P.L. Conn: El Paso 1-19-76 14,062'-74'; 14,086'-88'; 14,094'-99'; 14,168'-78'; Perfs: 14,234'-44'; 14,470'-80'; 14,522'-26', w/2 JSPF Current data: Flowing TP - 750#; CP 1800#; 14/64" choke January through June 1980: Monthly Production: January - 26,092 MCF February - 27,030 MCF March - 27,284 MCF April - 28,613 MCF May - 28,399 MCF June - 26,925 MCF Cum. Prod. through 6-30-80: 1,559,933 MCFG Projected Recoverable Reserves: 2.1 BCFG from 7-1-80

Based on the cost of drilling, completion, discount, taxes, and operating through depletion, with a gas price of \$1.45/ MCF, this is a commercial well.



United States Department of the Interior

GEOLOGICAL SURVEY South Central Region P. O. Box 26124 Albuquerque, New Mexico 87125



472

JAN 2 0 1982

Bass Enterprises Production Company Attention: Mr. Jens Hansen Fort Worth National Bank Building Fort Worth, Texas 76102

Gentlemen:

An approved copy of your 1982 plan of development for the James Ranch unit area, Eddy County, New Mexico, is enclosed. Such plan, proposing the drilling of the James Ranch unit well #13, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SED.) JAMES W. SHELTON

FCR Gene F. Daniel Deputy Conservation Manager Oil and Gas

Enclosure

cc: NMOCD, Santa Fe



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION**

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

.

January 3, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

BASS ENTERPRISES PRODUCTION CO. First City Bank Tower 201 Main St. Fort Worth, Texas 76102

ATTENTION: Jens Hansen

2

RE: James Ranch Unit Well No. 7, Participating Area Eddy County, New Mexico

Dear Sir:

The above referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the United States Minerals Management Service.

incerely mo Roy Z./Johnson

Petroleum Geologist

REJ/dp

cc: Commissioner of Public Lands - Santa Fe Minerals Management Service - Albuquerque OCD District Office





Commissioner of Public Lands December 30, 1981

P. O. BOX 1148 SANTA FE, NEW MEXICO 87501

Bass Enterprises Production Co. Fort Worth National Bank Building Fort Worth, Texas 76102

> Re: 1982 Plan of Development James Ranch Unit Eddy County, New Mexico

ATTENTION: Mr. Jens Hansen

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Plan of Development for the James Ranch Unit, Eddy County, New Mexico. Such plan proposes the directional drilling of the Unit Well No. 13 which will test the Morrow Formation. Our approval is subject to like approval to by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director Oil and Gas Division AC 505/827-2748

AJA/RDG/pm encls. cc:

OCD-Santa Fe, New Mexico USGS-Albuquerque, New Mexico



ALEX J. ARMIJO COMMISSIONER

472

BASS ENTERPRISES PRODUCTION CO. FORT WORTH NATIONAL BANK BUILDING FORT WORTH , TEXAS 76102

December 15, 1981

UNITED STATES GEOLOGICAL SURVEY P. O. Box 26124 Albuquerque, New Mexico 87125

COMMISSIONER OF PUBLIC LANDS P. O. Box 1148 Santa Fe, New Mexico 87501

OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87501

472

Re: 1982 Plan of Development James Ranch Unit Eddy County, New Mexico

Gentlemen:

1 - C. -

In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1953, Perry R. Bass, Unit Operator, hereby submits for your approval a Plan of Development for the year 1982.

History of Past Development

We have reviewed in our previous Plans of Development all wells drilled within the Unit and we refer to such Plans for specific reference therein.

1981 Activity

James Ranch Unit Well #9 - This Well was scheduled to be drilled in Section 9, T22S-R30E, to a depth of 14,500' to test the Morrow Formation. Due to objections by the Duvall Corporation, relative to a conflict with their potash operations, Bass has been unable to obtain a Drilling Permit to drill this Well. This matter will be pursued in the customary manner in an attempt to obtain a Drilling Permit.

James Ranch Unit Well #11 - This Well was drilled from a surface location 920' FWL and 1980' FNL, Section 36, T22S-R30E and directionally drilled to a bottom hole location 2640' FEL and 1320' FNL, Section 36, T22S-R30E, to a total depth of 14,600'. The Well was plugged back to a depth of 13,235' and completed in the Atoka Formation with the perforation interval being 13,038'-13,044'. This Well is currently producing as a gas well from the Atoka Formation. However, the deeper Morrow Zones are expected to be produced upon depletion of the Atoka. UNITED STATES GEOLOGICAL SURVEY COMMISSIONER OF PUBLIC LANDS OIL CONSERVATION DIVISION December 15, 1981 Page 2 of 3

James Ranch Unit Well #12 - located 1450' FNL and 1830' FEL, Section 21, T22S-R30E. This Well was drilled to a total depth of 14,200' and plugged back to 14,110', and was completed in the Atoka Formation with the perforation interval being 12,665'-12,672'. This Well is currently producing as a gas well from the Atoka Formation.

Participating Areas

We will submit in the near future our recommendations for Commercial Determinations and Participating Areas for the James Ranch #10, #11 and #12 Wells.

Future Development

We plan to drill the following test well/s for unitized substances at the following tentative loctions:

James Ranch Unit Well #13 - This Well will be directionally drilled from a surface location 1440' FNL and 860' FWL in Section 6, T23S-R31E, to a bottom-hole location in the SW/4 of Section 31, T22S-R31E. This Well will be drilled to an approximate total vertical depth of 14,600', which will test the Morrow Formation. The New Mexico Oil Conservation Division is currently considering the directional drilling case presented December 6, 1981 (Case #7439).

Additional Development

This Plan of Development shall constitute the drilling obligation of the Unit Operator under the terms of the James Ranch Unit Agreement ending December 31, 1982.

Modifications

It is agreed that this Plan of Development may be modified from time to time to meet changing conditions.

Effective Date

This Plan of Development shall be effective January 1, 1982.

If this Plan of Development meets with your approval, please indicate by signing in the appropriate space provided below and return one (1) copy for our records.

acerelv JENS WANSEN

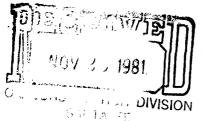
Division Landman

UNITED STATES GEOLOGICAL SURVEY COMMISSIONER OF PUBLIC LANDS OIL CONSERVATION DIVISION December 15, 1981 Page 3 of 3

AGREED TO AND ACCEPTED this _____ day of ______, 1981. UNITED STATES GEOLOGICAL SURVEY By ______ AGREED TO AND ACCEPTED this _____ day of ______, 1981. COMMISSIONER OF PUBLIC LANDS

NEW MEXICO OIL CONSERVATION DIVISION

By M Pen Jenec



BASS ENTERPRISES PRODUCTION CO. FORT WORTH NATIONAL BANK BUILDING FORT WORTH, TEXAS 76102

November 16, 1981

UNITED STATES GEOLOGICAL SURVEY P. O. Box 26124 Albuquerque, New Mexico 87125

COMMISSIONER OF PUBLIC LANDS P. O. Box 1148 Santa Fe, New Mexico 87501 Attention: Ray Graham

NEW MEXICO OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87501

472

Re: Commercial Determination James Ranch Unit Eddy County, New Mexico

Gentlemen:

In accordance with the provisions of Section 11 of the James Ranch Unit Agreement dated April 22, 1953, we hereby submit the attached materials covering the Well listed below to support our recommendation that such following Well be determined to be non-commercial and thereby not receive Participating Areas, and be produced on a lease basis.

> James Ranch Unit Well #12-Atoka - located 1450' FNL and 1830' FEL, Section 21, T22S-R30E, Eddy County, New Mexico.

If you should have any questions regarding the data submitted for the Commercial Determination on the above named Well, please contact Steve Rowland in our Midland Office, whose telephone number is (915) 684-5723.

hcerely.

JENS HÅNSEN Division Landman

JH:ep

JAMES RANCH UNIT NO. 12

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James Ranch Unit No. 12 had its initial and only completion in the Atoka horizon in a sand lense. After 2000 gallons 7-1/2% MSR acid, the well was potentialed at 5.093 MMCFGPD. The well was placed on line at 1.008 MMCFGPD and 10 BCPD; however, production immediately declined to the present rate of 544 MCFGPD and 5 BCPD. Water production is hindering the well's performance as current production is 35 BWPD.

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WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL	ΔΑΤΛ
WELLJames Ranch 12	FORMATION Atoka
LOCATION G UNIT, 1450 FEET FROM	
SPUD DATE 9-4-80 COMPLETION DATE	
PERFORATIONS 12,665', 12,666', 12,66	7', 12,668', 12,669', 12,670', 12,671',
12,672' w/3 gm JRC SSB-II charges,	one shot each depth
STIMULATION: ACID12,665' - 12,672' with 2,	000 gallons 7 1/2% MSR and 24 balls
FRACTURE	
POTENTIAL CAOF 5093 MCFPD	
(ATTACH COPY OF C-122. ATTACH COPY OF	WELLBORE SKETCH OF COMPLETED WELL.)
÷ VOLUMETRIC	CALCULATION
	FORMATION SANDS SANDS NOT PERFORATED PERFORATED BUT POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	320
Porosity (Ø), %	5.5
Water saturation (Sw), %	60
Net thickness (h) > $6\% \ \emptyset \ \& : 40\%$ Sw, ft	7
Temperature (T), °F	165

Bottomhole pressure (P), psia	7,561		
Recovery factor (RF), (80% assumed)			
Recoverable gas, MCF (See eq. below)	618,231		
Recoverable Gas, MCF = $(43,560)(\emptyset)(1-S)$	w)(A)(h)(R	F)(Bgi) where	
$Bgi = 0.03535 \frac{P}{ZT} \left(\frac{MSCF}{Cu Ft} \right) =$	0.03535	(7561) (1.19)(625) = .36	
PERFORM	ANCE DATA		
If sufficient history exists, attach p	lot of gas	production rate vs time.	
(Cumulative production to <u>8</u> / 31	/81;	55,814 MCF.	
Current rate (qi), <u>16,872</u>	MCF/mo	New Completion	
Economic limit (ql),3000			
Decline rate, dy			
Remaining gas (Q) = Ultimate Recoverable Gas	MCF MCF		
Q = <u>(qi - ql) 12 mo/yr</u> -1n (1-dy)			
Attach plat showing proration unit and	l participa	ating area.	
Attach plat showing proration unit and RECOVERABLE GAS		iting area. (MCF)COND (BB	LS)
			<u>LS)</u>
RECOVERABLE GAS	GAS		
RECOVERABLE GAS Gas sand previously produced	GAS	(MCF) COND (BB	
RECOVERABLE GAS Gas sand previously produced Sand perforated Sand not perforated, but potentially	GAS	(MCF) <u>COND (BB</u> (1)	
RECOVERABLE GAS Gas sand previously produced Sand perforated Sand not perforated, but potentially productive	<u>GAS</u>	(MCF) COND (BB	
RECOVERABLE GAS Gas sand previously produced Sand perforated Sand not perforated, but potentially productive Total recoverable gas	GAS	(MCF) COND (BB	5

;	ECONOMIC
	*Well Cost \$ 1,535,860 (to the depth of formation completed)
	Recompletion Cost \$
	TOTAL COST \$ 1,535,860
	(Gas Price)(Net Revenue Interest)(1-Production and Ad Valorem Taxes) + {(Oil Price) (Net Revenue Interest)(Cond. Yield, Bbls/MCF)(1-Production and Ad Valorem Taxes) - (Oil Price - Base Excise Tax) WFPT Frac}
	Net Gas Price = Gas Price (.845)(1-0.1) + (16 + (33-16).7)(0.845)(11)(Cond. Yield, Bbls/MCF)

\$2.18/MCF

**Operating Cost \$2000/Month

Bepco Net Income = (Gross Gas) (Net Gas Price)

YEAR	GROSS GAS	BEPCO NET INCOME	OPERATING COST		20% T_FACTOR	DISCOUNTED CASH FLOW
zero				0 .	1.0000	-1,535,860
1981 Through	55,814 h August 31	121,674	6,000 Through A	1 waust 31	0.9129	105,599
198	August 51		111 03 911 7		0.7607	
198					0.6339	
198					0.5283	
198			•		0.4402	
Remainde	r				0.3669	

If payout is five years or less, well is considered economical.

(Bepco Net Income - Operating Expense) discount factor = discounted cash flow.

UNECONOMICAL

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* Includes 11% of drilling cost as overhead.

****** Includes \$500/month as overhead.

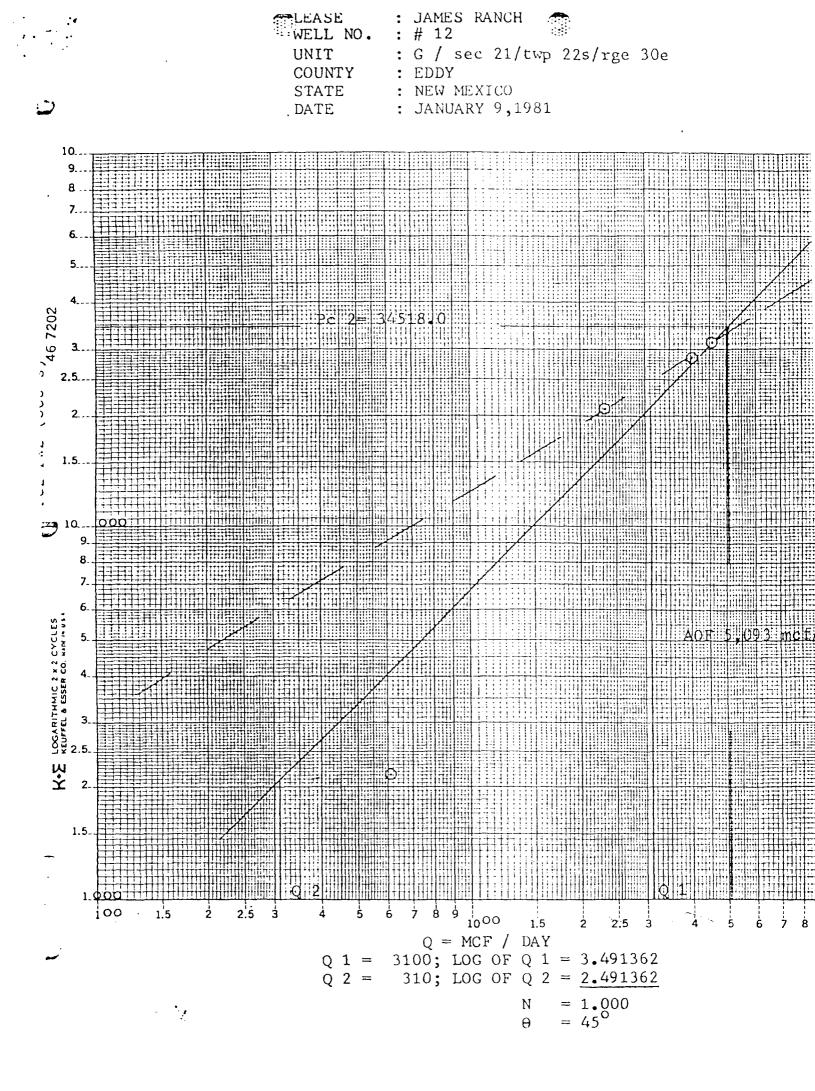
MULTIPOINT AD ONE POINT BACK PRESSURE TELEFOR GAS WELL

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Form C-127 Revised 9-1-65

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# WELL LOCATION AND ACREAGE DEDICATION PLAT

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# State of New Mexico





ALEX J. ARMIJO

COMMISSIONER

Commissioner of Public Lands October 7, 1981

P. O. BOX 1148 SANTA FE, NEW MEXICO 87501

Bass Enterprises Production Co. Fort Worth National Bank Building Fort Worth, Texas 76102

> Re: James Ranch Unit Revised Exhibits "A" and "B" Eddy County, New Mexico (

ATTENTION: Mr. Michael Joseph

Gentlemen:

This will acknowledge your letter of July 23, 1981 and letter from the United States Geological Survey dated October 5, 1981 wherein the second revision to Exhibits "A" and "B" was submitted to this office.

We have this date accepted these corrected exhibits and have been filed in our unit file. Also tract 16 has been changed from E/2SE/4 to W/2SE/4.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director, Oil and Gas Division AC 505/827-2748

AJA/RDG/pm cc:

OCD-Santa Fe, New Mexico USGS-Albuquerque, New Mexico BASS ENTERPRISES PRODUCTION C FORT WORTH NATIONAL BANK BUILDING FORT WORTH, TEXAS 76102

August 20, 1981

UNITED STATES GEOLOGICAL SURVEY P. O. Box 26124 Albuquerque, New Mexico 87125

Attention: Jim Shelton

Re:

SANTA FE

OIL CONSERVATION DIVISION

James Ranch Unit Well #7 Our Lease #4186 E/2 Section 6, T23S-R31E Eddy County, New Mexico Application for Approval of the Participating Area of the Morrow Formation

Gentlemen:

Under letter dated January 17, 1980, we submitted production data furnished by Conoco, Inc. for a Commercial Determination for the referenced Well. Based on that information, it was our position that the James Ranch Well #7 is capable of producing in commercial quanties and as a result, we recommended the Participating Area for the James Ranch Well #4, which consists of the W/2 of Section 6, T23S-R31E, be expanded to cover the E/2 of Section 6, of the Township and Range, to cover the James Ranch Unit Well #7.

After reviewing our submittal, you returned our application under letter dated April 2, 1981, with the instructions to submit additional data for commercial verification and a schedule as prescribed in Section II of the James Ranch Unit Agreement.

In compliance with your instructions, Bass Enterprises Production Co., as Unit Operator for the James Ranch Unit Agreement approved by the Regional Conservation Manager of the United States Geological Survey effective July 16, 1952, pursuant to the provisions of Section II thereof, respectfully submits for your approval the selection of the following described land to constitute the first revision of the Participating Area for the Morrow Formation, to wit:

> Lots 1 and 2, S/2 NE/4 and SE/4, Section 6, T23S-R31E, Eddy County, New Mexico, containing 319.92 acres.

In support of this Application, the following numbered items are attached hereto and made apart hereof:

> (1) An ownership map showing thereon the boundaries of the Unit Area, the Participating Area as heretofore established or revised and the boundary of the proposed revision herein. (Exhibit "A")

- (2) A schedule showing the lands entitled to participation in the unitized substances produced from the Morrow Formation with the percentage of participation of each lease or tract indicated thereon. (Exhibit "B)
- (3) Geological and Engineering Report (Exhibit "C")
- (4) Structure Map on Morrow Formation. (Exhibit "D")

This proposed first revision of the Participating Area is predicated upon the knowledge and information first obtained upon completion in paying quantities under the terms of the Unit Agreement on August 1, 1981, of Unit Well #7, in SW/4 of the NE/4 with an initial production of 1,559,933 MCFG up through 6/30/80, from the Morrow Formation at a depth of 14,062' to 14,526'. The effective date of this first revision shall be August 1, 1981, pursuant to Section 11 of the Unit Agreement.

Consequently, applicant respectfully requests your approval of the hereinabove selection of lands to constitute the first revision of the Participating Area to be effective August 1, 1981.

Sincerely JENS HANSEN Division Landman

JH:ep

cc: New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Belco Petroleum Corp. Suite 100 10000 Old Katy Road Houston, Texas 77055 Attention: Pat Miller

Conoco, Inc. P. O. Box 1959 Midland, Texas 79702

	4B	œ	4	TRACT #	
	Federal NM-02887-D	Federal NM-04473	Federal NM-02887-A	TYPE OF LAND	
	Lots 3, 4, 5 SE/4 NW/4	Lots 6, 7, E/2 SW/4, W/2 SE/4, SE/4 SE/4	Lots 1, 2 S/2 NE/4, NE/4 SE/4	DESCRIPTION	FII PAR' AGI
Total Federal Land	161.14	282.09	199.92	PARTICIPATING AREA	EXHIBIT "B" FIRST REVISION MORROW FORMATION PARTICIPATING AREA, JAMES RANCH UNIT AGREEMENT, EDDY COUNTY, NEW MEXICC
643.15	25.0548	43.8607	31.0845	% OF PARTICIPATION	r "B" 'RROW FORMATION A, JAMES RANCH UNIT COUNTY, NEW MEXICO
	Belco Petroleum Corp. 66.6666 Bass Enterprises Production Co. 25.0000 Perry R. Bass 8.3334	Belco Petroleum Corp. 66.6666 Bass Enterprises Production Co. 25.0000 Perry R. Bass 8.3334	Conoco Inc. 100%	WORKING INTEREST OWNERS	

Total Federal Land 643.15 Total State Land -0-Total Patented Land -0-Total 643.15

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Exhibit "C" First Revision Morrow Formation Participating Area, James Ranch Unit Agreement, Eddy County, New Mexico

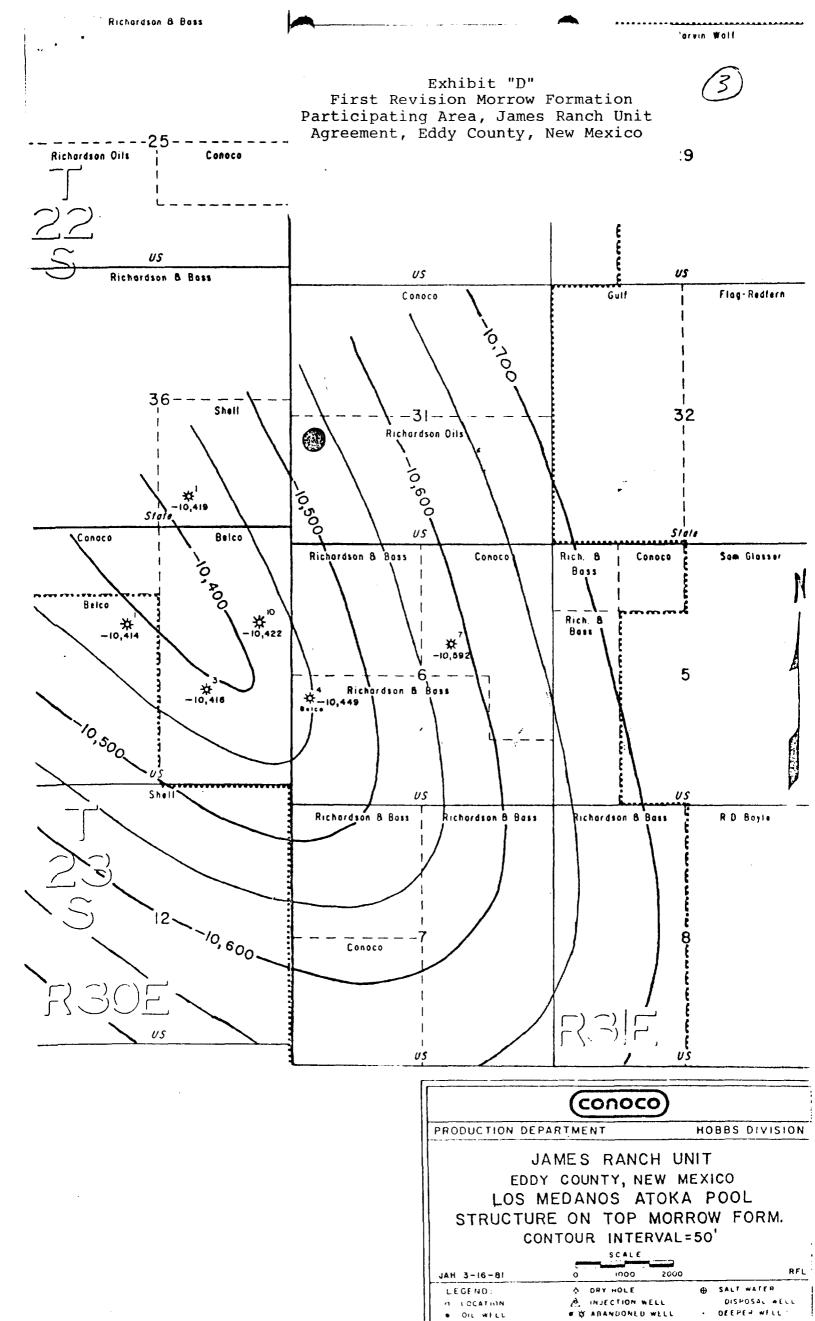
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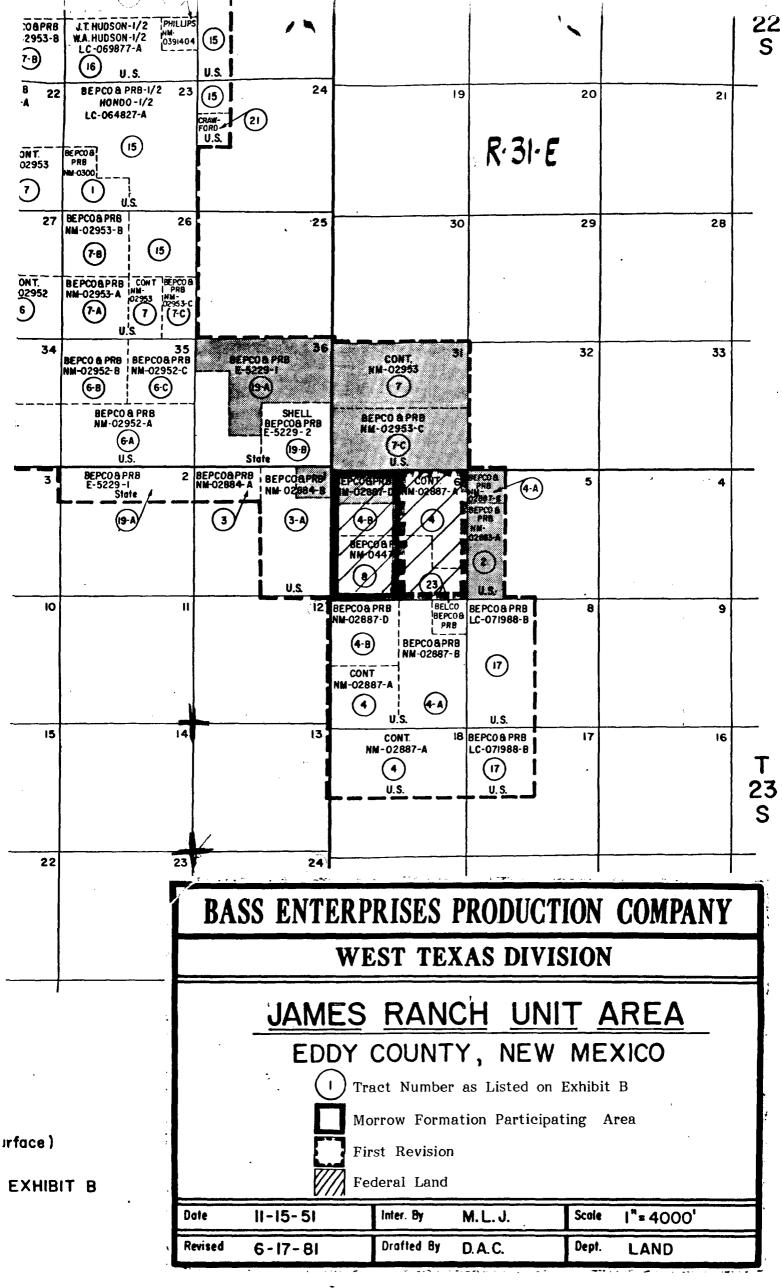
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Spudded: 6-30-74 IP: 1-19-76; O BO, O BW, 2300 MCFGPD FTP 700#; CP 600#; 18/64" choke P.L. Conn: El Paso 1-19-76 Perfs: 14,062'-74'; 14,086'-88'; 14,094'-99'; 14,168'-78'; 14,234'-44'; 14,470'-80'; 14,522'-26', w/2 JSPF Current data: Flowing TP - 750#; CP 1800#; 14/64" choke Monthly Production: January through June 1980: January - 26,092 MCF February - 27,030 MCF March - 27,284 MCF April - 28,613 MCF June - 26,925 MCF Cum. Prod. through 6-30-80: 1,559,933 MCFG Projected Recoverable Reserves: 2.1 BCFG from 7-1-80

Based on the cost of drilling, completion, discount, taxes, and operating through depletion, with a gas price of \$1.45/MCF, this is a commercial well.









# Commissioner of Public Lands

July 28, 1981

P. O. BOX 1148 SANTA FE, NEW MEXICO 87501

Bass Enterprises Production Co. Fort Worth National Bank Building Fort Worth, Texas 76102

> Re: James Ranch Unit Revised Exhibits "A" and "B" Eddy County, New Mexico

ATTENTION: Mr. Michael Joseph

Gentlemen:

This will acknowledge your letter of July 23, 1981 together with three copies each of the second recision to Exhibits "A" and "B".

Such Exhibits correct the tract numbers on Exhibit "A" to correspond with Exhibit "B" which was submitted to this office with your letter of June 9, 1981, also, to correct a typing error that was discovered on Page 1 of Exhibit "B".

We have this date accepted these corrected exhibits and have been filed in our unit file.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director Oil and Gas Division AC 505-827-2748

AJA/RDG/s cc:

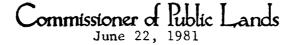
OCD- Santa Fe, New Mexico USGS-Albuquerque, New Mexico



ALEX J. ARMIJO COMMISSIONER

State of New Mexico





P. O. BOX 1148 SANTA FE, NEW MEXICO 87501

Bass Enterprises Production Co. Fort Worth National Bank Building Fort Worth, Texas 76102

> Re: James Ranch Unit Revised Exhibits "A" and "B" Eddy County, New Mexico

ATTENTION: Mr. Michael L. Joseph

Gentlemen:

This will acknowledge receipt of your letter dated June 9, 1981, together with revised Exhibits "A" and "B" to the James Ranch Unit, Eddy County, New Mexico. Such revision is necessary to include the SW/4NW/4 of Section 7-T22S-R31E which was omitted as part of the James Ranch Unit Area.

Such revisions have been accepted by this office and we have this date filed them in the unit file.

Enclosed is one copy reflecting the date it was received in this office.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY: FLOYD O. PRANDO, Assistant Director Oil and Gas Division AC 505-827-2748

AJA/FOP/s encl. OCD-Santa Fe, New Mexico/ cc: USGS- Albuquerque, New Mexico



ALEX J. ARMIJO COMMISSIONER BASS ENTERPRISES PRODUCTION CO. FORT WORTH NATIONAL BANK BUILDING FORT WORTH, TEXAS 76102

June 9, 1981

UNITED STATES GEOLOGICAL SURVEY P. O. Drawer 1857 Roswell, New Mexico 88201 Attn.: James Sutherland

COMMISSIONER OF PUBLIC LANDS P. O. Box 1148 Santa Fe, New Mexico 87501 Attn.: Alex J. Armijo

NEW MEXICO OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87501 Attn.: Joe D. Ramey

> Re: James Ranch Unit Revised Exhibits "A" & "B" Eddy County, New Mexico

Gentlemen:

Pursuant to my letter dated April 15, 1981, wherein Bass Enterprises Production Co. submitted revised Exhibits "A" & "B" to be made a part of the James Ranch Unit Agreement dated April 22, 1953, it was brought to our attention that the SW/4 NW/4 of Section 7-T22S-R31E was inadvertently omitted as part of the James Ranch Unit Area.

Therefore, in accordance with the terms and provisions of Section 2 of the aforementioned Agreement, Bass hereby respectfully submits revised Exhibits "A" & "B" which include the SW/4 NW/4 of Section 7-T22S-R31E thereby reflecting the correct James Ranch Unit Area pursuant to the condemnation proceedings for the WIPP AREA.

If you should have any questions concerning above, please do not hesitate to contact me at (817) 335-4591.

Sincerely

MICHAEL L. JOSEPH Landman

MLJ:ep

OIL CONSER SANTA FE