

MADE WELL ANTICLINE UNIT

CHAVES COUNTY, NEW MEXICO

M.L. Feldman December 23, 1980

Prospect NM 165 Exploration Memo #95-80

ENCLOSURES AND ATTACHMENTS

EXHIBIT A	Glor	ieta Structure Map
EXHIBIT B		Cross Section A-A'
EXHIBIT C	:Unit We	11 No. 1 Prognosis
EXHIBIT D)Unit W	Mell No. 2 Prognosis
		For Unit Well No. 1
EXHIBIT F		Well Cost Estimate For Unit Well No. 2

GEOLOGICAL REPORT

PROPOSED MADE WELL ANTICLINE UNIT CHAVES COUNTY, NEW MEXICO

PURPOSE

This report summarizes the geological reasons for the formation of a 39,238.15 acre Federal unit to be tested by two 5500 foot Precambrian wildcats (EXHIBIT A). First test will be located in the SW/4 of the NE/4 of Section 17, T13S, R22E, Chaves County, New Mexico. Second test will be located in the NW/4 of the NE/4 of Section 28, T12S, R22E, Chaves County, New Mexico.

LOCATION

Proposed unit is eight miles southwest of the city of Roswell, in southwestern

Chaves County, New Mexico (EXHIBIT A). It is located on outcrops of the Upper and Middle

San Andres Formation which are locally masked by Qauternary gravels of the Pecos

River drainage system. The Pecos River is about 16 miles east of the proposed Made

Well Anticline Unit.

GENERAL GEOLOGY

Proposed unit is located on the northwest flank of the Permian Basin and the southwest flank of the Pedernal Landmass. The Pedernal Landmass is a north-south trending cratonic element marked by Precambrian and younger igneous outcrops in central Lincoln and Torrance Counties, New Mexico. The southwest flank of the Pedernal Landmass is marked by three prominent northeast-southwest trending right latteral wrench faults (EXHIBIT A). These faults from west to east are termed the Border Buckle, Six Mile Buckle and YO Buckle. The Border, Six Mile, and YO Buckles and associated folds were mapped by Dr. V.C. Kelley of New Mexico University in 1965 and 1966 with support from

Humble Oil & Refining Company. Results of this primarily surface mapping study were published as Memoir 24, Geology of the Pecos County, Southeastern New Mexico, 1971. State Bureau of Mines and Mineral Resources New Mexico. Institute of Mining and Technology Campus Station Socorro, New Mexico.

We interpret the Border, Six Mile and YO Buckle surface faults to be the traces of down to the basin normal faults which were formed during the Strawnian thru Early Wolfcampian original subsidence of the Delaware Basin. Down to the east vertical displacement of 400 to 500 feet is suspected along these faults. No subsequent vertical movement is believed to have occurred along these faults.

During the Late Cretaceous - Early Tertiary Laramide Orogeny, the Permian Basin was tilted down to the north with a regional inclination of approximately one degree. This amount of northward tilt may be observed along the Capitan reef outcrop between Guadalupe Peak 8757 feet (Culberson Co., Texas) and White City, New Mexico 47 miles to northeast where it goes into the subsurface at an elevation of about 4050 feet. This Mesozoic-Tertiary tilt is thought to have caused the right latteral movement along the traces of the long dormant Paleozoic down to the basin fault traces. It is speculated that the Pedernal Landmass cratonic element was resistant to this tilting and that the old fault blocks (Eight Mile and Roswell) on its flanks moved differentially to the northeast (EXHIBIT B). The resultant wrench movement along the ancestral fault traces was transmitted to the surface by the shearing of the overlying Permian sediments. Surface outcrops ranging in age from Permian San Andres to Seven Rivers outcrop along these wrench faults in Chaves County. These sediments are contorted and "buckled" up along the fault traces by the compressional nature of these strike slip faults. However, post Lower Wolfcamp sediments appear to have little or no down to the east vertical displacement other than 50 to less than 200 feet mapped in the San Andres by Dr. V.C. Kelley. This apparent vertical displacement may be explained by

further northeastward down-tilt horizontal movement of the more eastern fault blocks. Due to the sparsity of control wells on the attached Glorieta Map (EXHIBIT A) no attempt was made to show this displacement.

LOCAL GEOLOGY

A typical result of compressional wrench faults such as the Border, Six Mile and YO Buckles is the formation of sub-parallel anticlinal folds in the intervening blocks. One of the largest folds of this probable genesis mapped by Dr. V.C. Kelley of New Mexico University was the Made Well Anticline in Townships 12 and 13S, Range 22 E, on the Roswell Block. No petroleum test has been drilled on or within 6 miles of this ten mile long feature. The objective of the Made Well Anticline Unit will be to test this anticline with two 5500 foot Pre-Cambrian wildcats.

POSSIBLE PAY ZONES

Primary objectives of the two Made Well Anticline Unit tests will be Fluvial-deltaic sandstones of the Permian Abo at 3200 feet and Cambro-Ordovician granite wash at 5175 feet.

Secondary possible pay zones are Yeso shelf dolomite at 1245 feet, Pennsylvanian Cisco Fluvial-deltaic sandstones at 4345 feet and Ordovician Montoya shelf dolomite at 4975 feet.

All of the above listed objectives are productive in southeast New Mexico.

General stratigraphy of these objectives is illustrated on Cross Section A-A' (EXHIBIT B).

UNIT OUTLINE

The unit outline was designed to include all acreage above the subsurface datum of 3200 feet above sea level as mapped on top of the Permian Glorieta sandstone horizon (EXHIBIT A).

It is felt that the exploration of the large Made Well anticline can best be

accomplished by a single operator. The presence of a single operator should offer the most efficient, economical and environmentally desirable means of exploration and development of the Made Well Anticline.

M.L. Feldman

MLF/bd 12-23-80

WELL PROGNOSIS

∰X E xploratory] c	evelopment		Prospect/FXeX Well Name & M State orXPXXXXI County XXXXXI	77 THE RESERVE TO SERVE THE PERSON OF THE PE	LL - #1 MADE WE ICO	Lease # 32202 LL UNIT
			į	ocation 1980	O' FNL & FE	LSec17	Twp 13S Rge 22E
Date 12/22/	′ 80		E	Proposed T.D (Elevation Gr	& Objective Form 4205' est.	nation 5500' P - 4215'est.	recambrian granite кь 4216' est.
		ICAL RE	QUIREMENTS	8	Formation To	ops	Depth
SAMPLE PRO					GLORIET	A 1005'	(+3210)
<u>30</u> 10	' sample ' sample	7 0 0	0		YESO	1245'	(+2970)
		s			JUBB	2515'	(+1700)
Samples to	MIDLAND	SAMPLES	LIBRARY		ABO	3215'	(+1000)
Samples to oth	· · · · · · · · · · · · · · · · · · ·				WOLFCAM		(+370)
LOGGING PRO						4115'	
IES Dual Induction			' to		CISCO		(+100)
BHC Acoustic BHC Density	 NEUTRO)N	1 to	TD		IPPIAN 4945'	
LaterologXX _ Micro!aterolog	_w/MSEL	<u>_</u>	' to	TD	MONTOYA		
SNP				TD	ELLENBU	RGER 5155'	(-940)
Gamma Ray N Dipmeter					GRANITE		
Other			' to		PRECAMB	RIAN GRANITE	515'(-1300)
CORING PROC	Or 4800'-1	ne 50' c <u>FD</u>	ore based o	on	_	nd Participants	
DST PROGRA	0 1		shows 4200		_	-	
Mud Logger Re Type	om Sür	face eldman		7D 2/80			
			D	RILLING P	ROGRAM		
	HOLE SIZ	ZE		ize	CASIN Weight	IG PROGRAM Depth	Cement
17 1		200	. 13 3		48 <u>#</u>	200	T
12 1/4		1,065	$\phantom{00000000000000000000000000000000000$	<u>/8</u>	24 #	1,065	
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	_		1	MUD PRO			·
Type	From	pih To	Wt.	Vis.	Charac % Oil	teristics W.L.	i
Brine	0'	3200'					
Salt Gel	3200'	5500'	9.0 - 9.6	33-34	3-4	10 cc	
						ļ	
		!					
Engr. Portion P	repared by			·		Date	
Approved: Lan	d		Date_		Exploration		Date



INEXCO OIL COMPANY

AUTHORIZATION FOR **EXPENDITURE**

AFE No. (Inexco Property No.)			·	
Prospect Made Well			: <u>1980' FN</u>	L &
Well Name and Number <u>Made Well Unit #1</u>		19	80'FEL	
		Sec.1	7,T13S,R22	E
Estimated Days to Drill			s Co., New	
Estimated Days to Complete				
SANDS AND	DEPTH	Est. T.D	5500	
OBJECTIVES Montoya	4975	Est. Spu	id	
Ellenburger	5155	AFEP	repared $\frac{12/2}{C}$	3/8.0
Granite Wash	5175	Bv: /-	C. Mas	War
Precambrian Granite	5515	-,,,		
() Drill () Workover Same Zone		() Recomplete in N	lew Zone
		ESTIMAT	ED COSTS	ACTUAL
DESCRIPTION		DRILLING	COMPLETION	COST
		DITTELING	COMPLETION	
INTANGIBLE COSTS (343):]]
Access and Location Costs		10,000	10,000	
Move-in, Rig-up, Rig-down, Move-out		30,000		
Contract Drilling				
Footage ft. at \$ ft				
Daywork <u>18</u> days at \$ <u>4000</u> day		72,000		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Completion Unit 10 days at \$1700 day			17,000	
Fuel, Power, Water and Water Lines		11,000	4,000	
Bits, Reamers and Stabilizers		21,700	1,000	
Equipment Rental		12,500	2,000	
				···
Cementing and Squeezing - Conductor Casing				
		3,200		
Surface Casing		7,500		
Intermediate Casing		7,500	6,000	
Production Casing		<u> </u>	0,000	
Liner			<u> </u>	
Other		35 000	7 000	
Drilling Mud and Chemicals		25,000	1,000	
Mud Logger		7,200	<u> </u>	
Logging, Coring and Testing -		70 400	Į.	
Cores50'core.plus.60.SWC		10,400		
DST's Logs.FDC/CNL/GR.SNP.O-TD		6,000	·	
Logs.FDC/CNL/GR. SNP 0-TD				
DILL/MSF 800-TD		17,300	<u> </u>	
CBL/PDL			5,000	
Perforating			4,000	
Acidizing and Fracturing			40,000	
Labor and Supervision		2,000	1,000	
Contract Labor		16.800	18,000	
Drilling Overhead		1,300		
Transportation		1,000	3,400	
•		500	2,300	
Sales Tax		10,000	10,000	
Other Miscellaneous Intangible Costs		22,000	(6,000)	
Losses, Damages and Abandonment				
Fishing Tool Expense and/or Directional Drilling			 	
Dry Hole Contributions		3,800		
Well Control Insurance		3,000		
TOTAL INTANGIBLE	\$ 409,900	\$291,200	\$118,700	\$

		ESTIMAT	ED COSTS	ACTUAL
DESCRIPTION		DRILLING	COMPLETION	COST
TANGIBLE COSTS (342):				
Onductor Csg. 200 ft. of 13-3/8 at	18.98 /ft	3,800		
Surface Csg. 1,065 ft. of 8-5/8 at	9.56 /ft	10,200		
Intermediate Csgft. ofat				
04 Liner ft. of at _				
5 Linerft. ofat_	/ft			
of Tieback at_	/ft			
Production Csg. 5500 ft. of $5-1/2$ at	6.39 /ft		35,200	
Tubing 5500 ft. of $2-3/8$ at	4.05 /ft		22,300	
Casing Head Assembly		3,000		
7 Tubing Head Assembly			6,000	
Pumping Unit				
9 Prime Mover				
2 Installation Costs and Non-Controllable Well Equipmen	t		9,000	
5 Storage Tanks			6,000	
Separator			·	
7 Dehydrator				
18 Heater - Treater				
19 LACT Unit				
LTX or Production Unit			12,000	
21 Line Pipe			2,000	
Gas Recorders			4,000	
23 Installation Costs and Non-Controllable Lease Equipme	ent		12,000	
TOTAL TANGIBLE	\$ 125,500	\$ 17,000	\$ 108,500	\$
TOTAL WELL				
TOTAL WELL	\$ 535,400	\$303,200	\$ 227,200	\$

OWNERSHIP APPROVALS:

INEXCO OIL COMPANY	Interest:	\$ *Authorized Signature	Date:
	**	· · · · · · · · · · · · · · · · · · ·	

WELL CONTROL INSURANCE

This AFE includes in Item 22, Page 1, Well Control Insurance, during drilling and completion only, covering: 1) the cost of control of a well in the event of a blowout; 2) bodily injury or property damage liability caused by pollution, seepage or contamination; 3) pollution cleanup; 4) extinguishing of an oil or gas well fire; and 5) redrilling of the well. You MUST INDICATE your acceptance or declination of your prorata share of the subject insurance by signing below. NO INDICATION WILL BE A CONCLUSIVE PRESUMPTION OF ACCEPTANCE.

If you decline the coverage offered, you must satisfy Inexco that you already have insurance or that you can bear the out of pocket cost of well control.

*INSURANCE COVERAGE ONLY
Accept

☐ Will Self Insure ☐ Have Alternate Insurance

*PLEASE BE SURE YOU HAVE SIGNED IN BOTH REQUIRED PLACES

Decline ...

INSURANCE

Operator shall at all times during the term of this Agreement carry insurance to protect the parties hereto as follows:

- (1) Workers' Compensation, U.S. Longshoremen's Act and Harbor Workers' coverage as required by the laws of the state where the operations are to be conducted and Employer's Liability Insurance with a limit of not less than \$100,000.
- (2) Comprehensive General Public Liability Insurance, including completed operations insurance, with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

The policy is extended to cover as additional insureds all co-owners, joint ventures, mining partners with the name insured in the oil and gas properties.

- (3) Automobile Public Liability Insurance covering all automotive equipment used in performance of work under this agreement with limits of not less than:
 - -\$250,000 each occurrence
 - —\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

If automotive equipment used is owned exclusively by Operator, no charge will be made to the Joint Account for premiums for this coverage except as provided in Section 111, Paragraph 5 of the Accounting Procedure.

Operator shall require all contractors performing work under this Agreement to carry the following insurance:

- (1) Workers' Compensation, U.S. Longshoremen's Act and Harbor Workers' coverage as required by the laws of the state where the operations are to be conducted and Employer's Liability Insurance with a limit of not less than \$100,000.
 - (2) Comprehensive General Public Liability Insurance with limits of not less than:
 - -\$250,000 each occurrence
 - —\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident
- (3) Automobile Public Liability Insurance covering all automotive equipment used in performance of work under this agreement with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident
- (4) Contractual Insurance covering indemnity agreement and Contractor's other obligations under this contract with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

Excess liability insurance may be carried to meet the above requirements.

WELL PROGNOSIS

送 XExploratory	<u> </u>	evelopment		Prospect/系送始处 Well Name & No State XX 冷火浴浴 Countyxx 欠減減	S NEW WEX	_ #2 - MADE WE	_Lease = 3219 LL UNIT)4
		•		Location660 F	NL&1980'FE	Sec28	Twp. 12S Rge	22E
Date12/	22/80	h alini da an		Proposed T.D & Elevation Gr. 40	Objective Forma 195 est DF	-4105' est.	к <u>ь4106'</u> est.	
	GEOLOGI	CAL REC	UIREMENT	S	Formation To	p s	Depti	1
SAMPLE PRO	GRAM				GLORIET	A 885'	(+32 2 0	1)
<u>30</u>	' samples	215	' to	945 · · ·	YESO	1135'	(+2970	
	' samples ' samples	S	, to		TUBB	2405'	(+1700	
Samples to		SAMPLE	LIBRARŸ		ABO	3105'	(+1000	
Samples to oth	er partners.							
LOGGING PRO	•	•	,		WOLFCAM		(+385)	
IES Dual Induction					CISCO	3980'	(+125)	<u></u>
BHC Acoustic BHC Density _	 NEUTRO)N		TD.	CISCO S		(-125)	<u> </u>
Jal Laterolog XXX Microlaterolog	w/RXO		945	<u>TD</u> ;	MONTOYA		(-725	<u> </u>
SNP Gamma Ray N				TD;	<u> GRANITE</u>	WASH. 4965'	(-860	
Dipmeter		 			PRECAMB	RIAN 5505'	(-140	<u>)</u>
Mud Logger Re Type2 Geologist: Fr Prepared by (Geological)	_Man_0 omsur	face		TD				
	UOLE 617		1	DRILLING PE		C PROCESIA		
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				MUD PRO	GRAM	•		
Type		pth	12/4	V:-	Charact	eristics W.L.		
Brine Salt Gel	From	3105'	Wt.	Vis.	% Oil			
Jair Gel	3105'	5500'	9.0-9.6	33-34	3-4	10 cc		
					 			
Engr Partion 9	repared hy	1				Date	<u></u>	
Approved: Lan						Dave	Date	

Producing



Prospect ____

Estimated Days to Drill ___

AFE No. (Inexco Property No.)

Prospect _____ Made Well

Well Name and Number <u>Made Well Unit #2</u>

INEXCO OIL COMPANY

AUTHORIZATION FOR **EXPENDITURE**

Location: 660'FNL

1980'FEL Sec. 28, T12S, R22E

	SANDS AND DEP		Est. T.D		
	OBJECTIVES Cisco Sand 4230		Est. Spu	ıdbı	/0.0
	Montoya 4830		AF 5 P	repared <u>12/23</u>	80
	Granite Wash 4965		By: Z	-Comal	1-
	Precambrian 5505 () Drill () Workover Same Zone		L() Recomplete in N	ew Zone
	DESCRIPTION		 	ED COSTS	ACTU
			DRILLING	COMPLETION	COS
	INTANGIBLE COSTS (343):		3.0.00		
01	Access and Location Costs		10,000	10,000	
02	Move-in, Rig-up, Rig-down, Move-out		30,000		
	Contract Drilling				
03	Footage <u>18</u> ft. at \$4000 ft				
04	Daywork 10 days at \$ 1700 day		72,000		
05	Completion Unit days at \$ day			17,000	
06	Fuel, Power, Water and Water Lines		11,000	4,000	
07	Bits, Reamers and Stabilizers		21,700	1,000	
80	Equipment Rental		12,500	2,000	
09	Cementing and Squeezing -				
	Conductor Casing		3,200		
•	Surface Casing		7,500	1	· · · · · · · · · · · · · · · · · ·
	Intermediate Casing		7,500	6,000	
	Production Casing			0,000	·····
	Liner		· ·		
	Other		25,000	1,000	· · · · · · · · · · · · · · · · · · ·
10	Drilling Mud and Chemicals		7,200	1 - 1,000	
10	Mud Logger	• • • • • • • •	7,200		
11	Logging, Coring and Testing		10,400		
	Cores50.'core.plus.60.SWC		6,000		
	DST's. 2				
	Logs. FDC/CNL/GR,SNP0-TD		17,300		
	CBL/PDC			5,000	
10	•			4,000	
12	Perforating			40,000	
12	•		2,000	1.000	
13	Labor and Supervision		16,800	18,000	
13	Contract Labor		1,300		
14 15	Transportation		1,000	3,400	
16	Sales Tax		500	2,300	
17	Other Miscellaneous Intangible Costs		10,000	10,000	
18	Losses, Damages and Abandonment		22,000	(6,000)	
19	Fishing Tool Expense and/or Directional Drilling				
20	•				
22			3,800		
22	The second of th				
	TOTAL INTANGIBLE \$ 4.0	0.00	\$ 291,200	s _{118,700}	\$
	- 40	7700	1 471,400	1,778,100	L

			ESTIMATI	ED COSTS	AC
ESCRIPTION			DRILLING	COMPLETION	C
TANGIBLE COSTS (342):					
Conductor Csg. 200	ft. of <u>13-3/8</u> at	18.98 /11	3,800		ļ.,,
Surface Csg. 945	ft. of <u>8-5/8</u> at	9.56 /ft	9,100		
Intermediate Csg	ft. ofat	/ft			<u> </u>
Liner	ft. ofat	/ft			ļ
Liner	ft. of at	/ft			ļ <u></u>
Tieback	ft. ofat	/ft			ļ
Production Csg. 5500	ft. of5-1/2_at	6.39/ft		35,200	
Tubing5500	ft. of2=3/8_at	4.05 /ft		22,300	
Casing Head Assembly			3,000		<u> </u>
Tubing Head Assembly				6,000	ļ
Pumping Unit				 	
					ļ
Installation Costs and Non-C	Controllable Well Equipment.	•••••		9,000	
Storage Tanks				6,000	
Separator					ļ
•				·	
			<u> </u>	10.000	
				12,000	
•				2,000	
					
Installation Costs and Non-C	Controllable Lease Equipmen	t		12,000	+
	•				
			·		 -
•					
-	TOTAL TANGIBLE	\$124,400	\$ 15,900	\$108,500	\$
		124,400	13,300	100,300	<u> </u>
	TOTAL WELL	\$534,3000	\$ 307,100	\$227,200	\$
It is recognized that the amoun	The state of the s			extend to the actu	al cost
incurred in conducting the ope	eration specified, whether mo	re or les than that her	ein set out.		
		•			
			•	•	
OWNERSHIP APPROVALS:					
07772713FIII 711 FIIO 77120					
INEXCO OIL COMPANY	. Interest:	\$	*Authorized Sig	nature D	ate:

NEXCO OIL COMPANY	Interest:	\$ 	*Authorized Signature	Date:	
	44444				
		· · · · · · · · · · · · · · · · · · ·			
			·		
					

WELL CONTROL INSURANCE

This AFE includes in Item 22, Page 1, Well Control Insurance, during drilling and completion only, covering: 1) the cost of control of a well in the event of a blowout; 2) bodily injury or property damage liability caused by pollution, seepage or contamination; 3) pollution cleanup; 4) extinguishing of an oil or gas well fire; and 5) redrilling of the well. You MUST INDICATE your acceptance or declination of your prorata share of the subject insurance by signing below. NO INDICATION WILL BE A CONCLUSIVE PRESUMPTION OF ACCEPTANCE.

If you decline the coverage offered, you must satisfy Inexco that you already have insurance or that you can bear the out of pocket cost of well control.

INSUNANCE CO	JVERAGE UNLT		
Accept		 	

Decline	 	 	
	 	_	

☐ Will Self Insure ☐ Have Alternate Insurance

INSURANCE

Operator shall at all times during the term of this Agreement carry insurance to protect the parties hereto as follows:

- (1) Workers' Compensation, U.S. Longshoremen's Act and Harbor Workers' coverage as required by the laws of the state where the operations are to be conducted and Employer's Liability Insurance with a limit of not less than \$100,000.
- (2) Comprehensive General Public Liability Insurance, including completed operations insurance, with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

The policy is extended to cover as additional insureds all co-owners, joint ventures, mining partners with the name insured in the oil and gas properties.

- (3) Automobile Public Liability Insurance covering all automotive equipment used in performance of work under this agreement with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

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 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident
- (4) Contractual Insurance covering indemnity agreement and Contractor's other obligations under this contract with limits of not less than:
 - -\$250,000 each occurrence
 - -\$500,000 each accident
 - -\$100,000 for loss of or damage to property in any one accident

Excess liability insurance may be carried to meet the above requirements.