

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 11615 Exhibit No. 1

Submitted by: Thornton Operating Corporation

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

IN THE MATTER OF THE APPLICATION
OF THORNTON OPERATING CORPORATION
FOR POOL CONTRACTION, POOL CREATION,
SPECIAL POOL RULES, NON-STANDARD
SPACING OR PRORATION UNIT, DIRECTIONAL
DRILLING AND AN UNORTHODOX WELL LOCATION,
CHAVES COUNTY, NEW MEXICO.

CASE NO. 11615

AFFIDAVIT

STATE OF NEW MEXICO)
) ss
COUNTY OF SANTA FE)

William F. Carr, attorney in fact and authorized representative of Thornton Operating Corporation, the Applicant herein, being first duly sworn, upon oath, states that notice has been given to all interested persons entitled to receive notice of this application under Oil Conservation Division rules, and that notice has been given at the addresses shown on Exhibit "A" attached hereto.

William F. Carr

SUBSCRIBED AND SWORN to before me this ZND day of October, 1996.

Notary Public

My Commission Expires:

EXHIBIT A

Read & Stevens, Inc. Post Office Box 1518 Roswell, NM 88202-1517

Rubie Crosby Bell
1331 3rd Street
New Orleans, LA 70130

Bryan Bell Family Limited Partnership No. 1 1331 3rd Street New Orleans, LA 70130

Western Oil Producers, Inc. Post Office Box 1498 Roswell, NM 88202-1498

The Estate of H.F. Glover Norma Glover Smith, Personal Rep. Rt. 2, Box 4024 S. Spring Loop Roswell, NM 88201

McClellan Oil Corporation Post Office Box 730 Roswell, NM 88202-0730

Marathon Oil Company Post Office Box 552 Midland, TX 79702-0552

Yates Petroleum Company Yates Building 105 South Fourth Street Artesia, NM 88210

The Toles Company Post Office Drawer 1300 Roswell, NM 88202-1300

AFFIDAVIT, Page 2 Bryan Bell 1331 3rd Street New Orleans, LA 70130

Ruby Crosby Bell Family Limited Partnership No. 1 1331 3rd Street New Orleans, LA 70130

Estate of Truman T. Sanders, Jr. Post Office Box 550 Roswell, NM 88202-0550

A. L. Mangum, Jr. Post Office Box 99065 Lubbock, TX 79499

K & C Production Co. 118 W. 1st Street Roswell, NM 88201

Enron Oil & Gas Post Office Box 2267 Midland, TX 79702

Seagull Midcon Inc. 1001 Fannin Suite 1700 Houston, TX 77002

Sherry Roton Amoco Production Company 501 WestLake Park Blvd. Houston, TX 77079

CAMPBELL, CARR, BERGE 8 SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
MICHAEL H. FELDEWERT

TANYA M. TRUJILLO
PAUL R. OWEN

JACK M. CAMPBELL OF COUNSEL JEFFERSON PLACE
SUITE I - 110 NORTH GUADALUPE

POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

September 5, 1996

CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO ALL AFFECTED INTEREST OWNERS

Re: Application of Thornton Operating Corporation for Pool Contraction, Pool Creation, Special Pool Rules, a Nonstandard Spacing or Proration Unit. Directional Drilling and an Unorthodox Bottomhole Well Location, Chaves

County, New Mexico

Gentlemen:

This letter is to advise you that Thornton Operating Corporation has filed the enclosed application with the New Mexico Oil Conservation Division. You are the owner of an interest that may be affected by this application.

This matter has been set for hearing before a Division Examiner on September 26, 1996. You are not required to attend this hearing but you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging this matter at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Pre-Hearing Statement substantially in the form prescribed by the Division. Pre-Hearing Statements should be filed by 4:00 p.m. on the Friday before a scheduled hearing.

Very truly yours,

WILLIAM F. CARR

Attorney for Thornton Operating Corporation

WFC:mlh

cc: Robert Thornton

P 329 626 147
US Postal Service
Receipt for Certified Mail

Read & Stevens, Inc.
Post Office Box 1518
Roswell, NM 88202-1517

	Postage	\$
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
1995	Return Receipt Showing to Whom & Date Delivered	
, April	Return Receipt Showing to Whom, Date, & Addressee's Address	
800	TOTAL Postage & Fees	\$
PS Form 3800, April 1995	Postmark or Date SEP - 5	996

ł	s your	RETUR	IN AD	DRE	SS ·	cowt	eted o	on t	he r	eve	rse side?
PS Form 3811, December 1994	6. Signature: (Addressee or Agent) X	5. Received By: (Print Name) MILL MIX 88	199	Roswell, NM 88202-1517	Post Office Box 1518	Read & Stevens, Inc.	3. Article Addressed to:	delivered.	 Write "Return Receipt Requested" on the mailpiece below the article number. The Battim Receipt will show to whom the article was delivered and the date 	 Attach this form to the front of the mailpiece, or on the back if space does not 	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we can return this carrier to your.
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US Postal Service Receipt for Certified Mail

Rubie Crosby Bell 1331 3rd Street New Orleans, LA 70130

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April 1995	Return Receipt Showing to Whom & Date Delivered	
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PS Form 3800,	Postmark or Date	1996

Domestic Return Receipt		PS Form 3811 / December 1994
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		SENDER: Complete items 1 and/or 2 for additional services.

US Postal Service
Receipt for Certified Mail
Bryan Bell Family Limited
Partnership No. 1
1331 3rd Street
New Orleans, LA 70130

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US Postal Service
Receipt for Certified Mail

Western Oil Producers, Inc. Post Office Box 1498 Roswell, NM 88202-1498

Postage	\$
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Restricted Delivery Fee	
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US Postal Service
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The Estate of H.F. Glover Norma Glover Smith, Personal Rep. Rt. 2, Box 4024

S. Spring Loop Roswell, NM 88201

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5. Received By: (Print Name) 6. Signarde: (Addrassee or Agent) 8. X 1	3. Article Addressed io: The Estate of H.F. Glover Norma Glover Smith, Personal Rep. Rt. 2, Box 4024 S. Spring Loop Roswell, NM 88201	 SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the malipiece, or on the back if space does not permit. Write 'Feturn Receipt Requested' on the malipiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered.
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US Postal Service
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McClellan Oil Corporation Post Office Box 730 Roswell, NM 88202-0730

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US Postal Service
Receipt for Certified Mail

Marathon Oil Company Post Office Box 552 Midland, TX 79702-0552

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US Postal Service
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Yates Petroleum Company
Yates Building
105 South Fourth Street
Artesia, NM 88210

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Bryan Bell 1331 3rd Street New Orleans, LA 70130

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Receipt for Certified Mail Ruby Crosby Bell Family Limited Partnership No. 1 1331 3rd Street New Orleans, LA 70130

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US Postal Service
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Estate of Truman T. Sanders, Jr. Post Office Box 550 Roswell, NM 88202-0550

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US Postal Service Receipt for Certified Mail

A. L. Mangum, Jr. Post Office Box 99065 Lubbock, TX 79499

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April 1995	Return Receipt Showing to Whom & Date Delivered	
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PS Form 3811, December 1994	6. Signatur6: (Addressee or Agent)	5. Received By: (Print Name)	A. L. Mangum, Jr. Post Office Box 99065 Lubbock, TX 79499	Addressed to:	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the malipiece graduate this form to the front of the malipiece before the permit. Write 'Return Receipt Requested' on the malipiece before and and the Return Receipt will show to whom the billing was selfware and the permit.
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Thank you for using Return Receipt Service.

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US Postal Service
Receipt for Certified Mail

K & C Production Co. 118 W. 1st Street Roswell, NM 88201

	Postage	\$
	Certified Fee	
	Special Delivery Fee	
10	Restricted Delivery Fee	
April 1995	Return Receipt Showing to Whom & Date Delivered	
	Return Receipt Showing to Whom, Date, & Addressee's Address	
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P 329 626 161
US Postal Service
Receipt for Certified Mail

Enron Oil & Gas Post Office Box 2267 Midland, TX 79702

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	s your	RETUR	N AD	DRE	<u>SS</u> c	omi	pleted	on t	he r	eve	rse s	ide?	
PS Form 3811, December 1694	6. Signature: (Addressep or Agent)	5. Received By: (Print Name)		Midland, TX 79702	2267	Enron Oil & Gas	3. Article Addressed to:	delivered.	 Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date 	Attach this form to the front of the mailpiece, or on the back if space does not permit.	 Complete items 3, 4s, and 4b. Print your name and address on the reverse of this form so that we can return this card to you. 	SENDER: Complete items 1 and/or 2 for additional services.	
Domestic Return Receipt		8. Addressee's Address (Only if requested and fee is paid)	7. Date of Delivery 乌亚宁 负 1996 g	for Merchandise COD	☐ Registered	4b. Service Type	4a. Article Number P 329 626 161	Consult postmaster for fee.	number. 2. Restricted Delivery street	1. ☐ Addressee's Address	extra fee):	I also wish to receive the	

US Postal Service
Receipt for Certified Mail
Seagull Midcon Inc.
1001 Fannin
Suite 1700
Houston, TX 77002

	Postage	\$
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
מפפו ווישע	Return Receipt Showing to Whom & Date Delivered	
2	Return Receipt Showing to Whom, Date, & Addressee's Address	
	TOTAL Postage & Fees	\$
S CHILL SOCK	Postmark or Date	1956

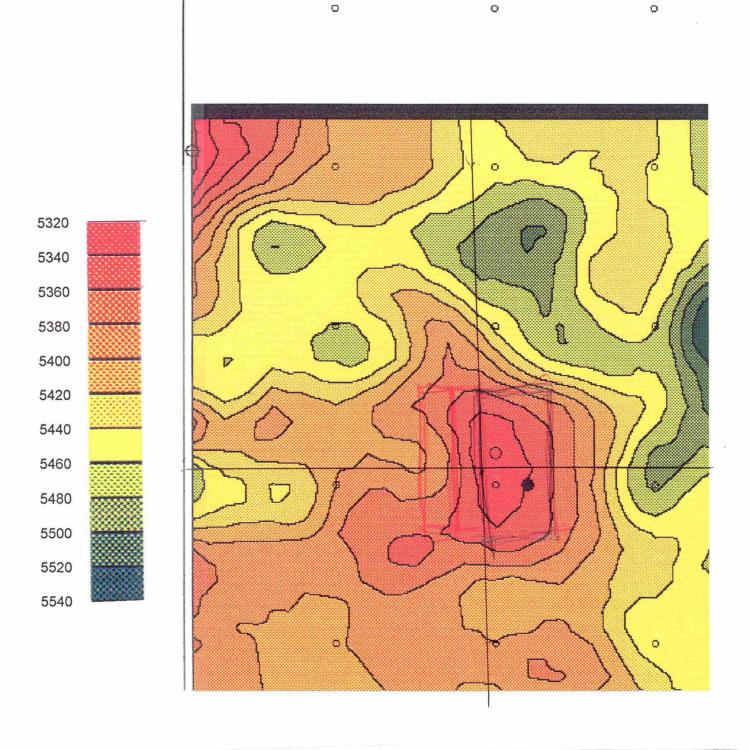
ls you	RETU	RN A	DDRES	S co	mplete	d o	n the	rev	erse :	side?
X PS Form 3811, December 1994 Agent)	Heceived By: (Print Name)	÷.	X 77002	1001 Fannin Suite 1700	Seagull Midcon Inc.	3. Article Addressed to:	 Trivile neurin Heceipt Hequested on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered. 	 wilach this form to the front of the mailpiece, or on the back if space does not permit. 	Print your name and address on the reverse of this form so that we can return this card to you.	SENDER: "Complete items 1 and/or 2 for additional services."
Domestic Return Receipt	8. Addressee's Address (Only if requested and fee is paid)	7. Date of Delivery 19 19 1926 2	Merchandise	☐ Registered ☑ Certified G	# 328 626 162	Consult postmaster for fee.		_		I also wish to receive the

b 354 65P 7P3

Receipt for Certified Mail
Sherry Roton
Amoco Production Company
501 WestLake Park Blvd.
Houston, TX 77079

	Postage	\$
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
April 1995	Return Receipt Showing to Whom & Date Delivered	
April	Return Receipt Showing to Whom, Date, & Addressee's Address	
800	TOTAL Postage & Fees	\$
6	Postmank or Date	
PS Form 3800,	SED F	ento.

× 2h Why Il making
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00140
Permin. Write 'Return Receipt Requested' on the mailpiece below the article number. The Beturn Receipt will show to whom the esticle was delivered and the date
Attach this form to the front of the mailpiece, or on the back if space does not
Print your name and address on the reverse of this form so that we can return this



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BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 11615 Exhibit No. 3

Submitted by: Thornton Operating Corporation

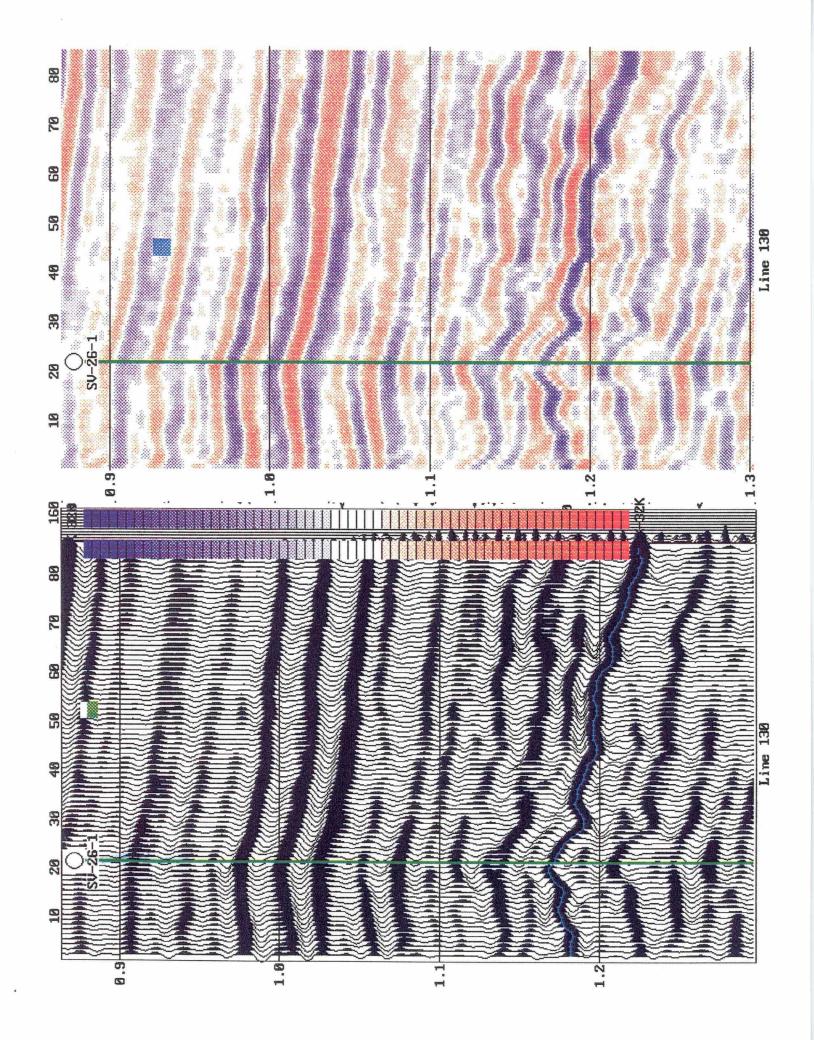
Hearing Date: October 3, 1996

WEST KING CAMP MISSISSIPPIAN LIME DEPTH Chaves Co., N.M. T13S-R29E

C.I.=20'

SCALE: 1"=1000"

R.L.T.



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 11615 Exhibit No. 4

Submitted by: Thornton Operating Corporation

<Arb-Line 45deg.arb> king.hdr 09/30/96 15:49:23 00 15:49:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 00 15:40 3d exploration Line Trace 0.5 miss

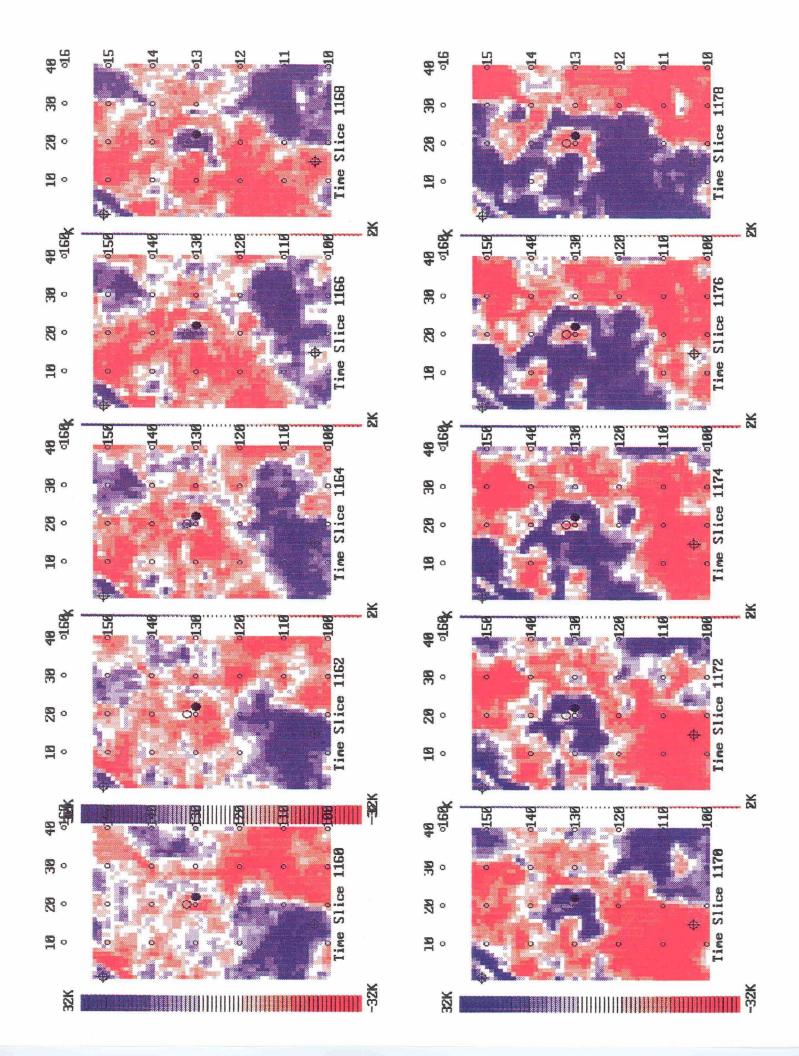
MIGRATION

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. <u>11615</u> Exhibit No. <u>5</u>

Submitted by: Thornton Operating Corporation



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. <u>11615</u> Exhibit No. <u>6</u>

Submitted by: Thornton Operating Corporation

Elevation

Formation

10/4/10 wh 56 Inverness Drive East Englewood, CO 80112

TICKET	MANLANO
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Contractor	Ziadril	
Rig No.	10	
Spot	182' FNL & 507' FWL	
Sec	26	
Twp.	13 S	
Rng.	29 E	
Field	Wildcat	
County	Chaves	
State	New Mexico	

3820' KB

Devonian

Surface Choke	1/8"
Bottom Choke	3/4"
Hole Size	7 7/8"
Core Hole Size	None
DP Size & Wt.	4 1/2" 16.60
Wt. Pipe	None
I.D. of DC	2 1/4"
Length of DC	732'
Total Depth	9862'
Type Test	Conventional
Interval	9828'- 9862'
j	

1		
ı	Mud Type	
	Weight	9.5
	Viscosity	40
ĺ	Water Loss	
	Filter Cake	
į	Resistivity	@ °F
		85,000 Ppm. NaC
	B.H.T.	165.4 °F
	Co. Rep.	Ronnie Carre
	Tester	Mike Fraley
	Baker Dist.	Hobbs NM

REPORTED

2

06:46

15

90

120

240

Opened Tool @

Shut-in No. 2

Flow No.

Flow No

Shut-in No.

CORRECTED

16

89

119

240

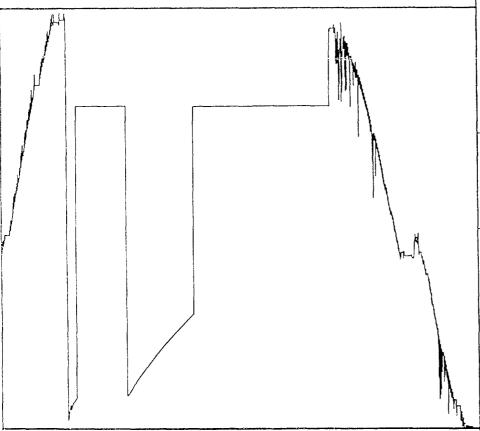
hrs.

min

min.

min.

min.



	Flow No. 3 Shut-in No. 3	I	None "	Taken "	min. min.
	Recorder Type		STI 8	3000	
	No. 01119	Сар	١.	10000	psi
	Depth			9833	feet
	Inside		Clock		
	Outside x		Range	;	hrs
ĺ	Initial Hydrostatic	Α	·····	5046	
	Final Hydrostatic	Κ		4940	
Ì	Initial Flow	В		94	
Į	Final Initial Flow	С		368	
١	Initial Shut-in	D		3980	
ļ	Second Initial Flow	E		387	
	Second Final Flow	F		1405	
١	Second Shut-in	G		3978	
	Third Initial Flow	Н			
	Third Final Flow	1			
	Third Shut-in	J			

Pipe Recovery

Reverse circulated to reservoir pit:

2878' Oil = 40.9 bbl.830' Water = 5.0 bbl.

Gravity:

Top:

46.0 Deg API @ 60 Deg F

Chlorides:

Middle: Bottom: 20,000 ppm Cl. titrated. 20,000 ppm Cl. titrated.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. <u>11615</u> Exhibit No. <u>7</u>

Submitted by: <u>Thornton Operating Corporation</u>

Company: Manzano Oil Corp.

Well: McClellan Federal #1
DST No: 1

09-28-1995

SAMPLER REPORT

 					
Pressure in Sampler:	300	psig			
Total Volume of Sampler:	2600	CC.			
Total Volume of Sample:	2160	cc.			
Oil:	2150	cc.			
Water:	10	CC.			
Mud:	None	cc.			
Gas:	0.40	cu. ft.			
Other:	None				
Sample:	20,000 ppm Cl. titrated. Resistivity				
Make up Water	@	°F of Chloride Content			ppm.
Mud Pit Sample	@	°F of Chloride Content	85,000)	ppm.
Gas / Oil Ratio 30/1	l cu.ft./bbl. Gravity	46.0	°API @	60	٥E
Where was sample drained	On Location.				
Remarks:					

Company: Manzano Oil Corp.

Well: McClellan Federal #1, DST #1

Field: Wildcat 09-28-1995

Gauge Depth 9833.0 feet

[INPUT PARAMETERS] (Build-Up Analysis)

Well Type - OIL				
Reservoir Pressure	psia		P	3979
Reservoir Temperature	Deg F		Т	165
Final Shut-in Pressure	psia		Psi	3978
Final Flowing Pressure	psia		Pwf	1405
Oil Flow Rate	STB/D		Qo	434
Sand Thickness	feet		hnet	12
Wellbore Radius	feet		rw	0.3280
Formation Porosity	ሄ		POR	6
Extrapolated Pressure	psia		P*	3979
Extrapolated Press @ 1h	r psia		Plhr	3977
Semi-Log Slope	psi/cycle		М	-4.926
Production Time	hrs		tp	2.30
Shut-in Time	hrs		tsi	4.00
Uo (cp) 2.5823E+00		Bo (RB/STB)	1.12	24E+00

Uo	(cp)	2.5823E+00	Во	(RB/STB)	1.1224E+00
Со	(1/psi)	4.1207E-06	Ct	(1/psi)	9.6810E-06

[CALCULATED RESULTS]

(Semi-Log) Analysis Pressure Method				
Transmissibility	md-ft/cp	kh/u	16078.476	
Flow Capacity	md-ft	kh	41519.066	
Permeability	md	k	3459.922	
Skin Damage	total	S	+592.85	
Pressure Drop due to Skin	psia	dР	+2536.03	
Flow Efficiency	8	FE	11.48	
Drainage Radius	feet	rd	2786	

Company: Manzano Oil Corp.
Well: McClellan Federal #1

DST No: 1 09-28-1995

This analysis has been made on the basis of the liquid recovery and equations applicable to liquid recovery tests, the Horner extrapolation method and comparative log/log analysis.

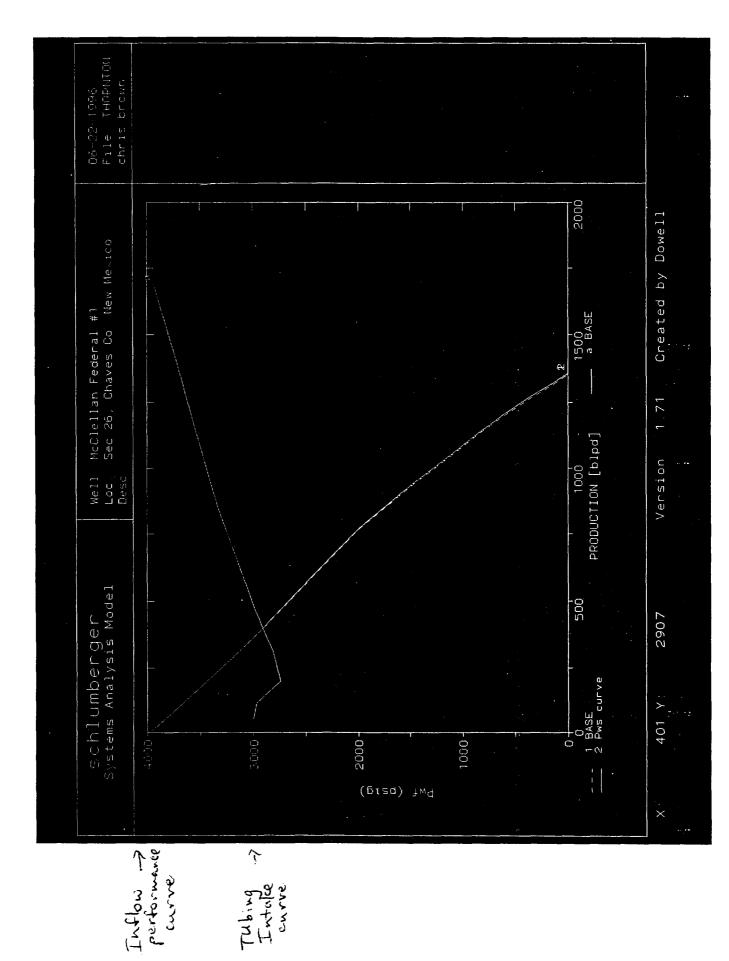
The semi-log plots indicate a maximum initial reservoir pressure of 3980 psi and a maximum final reservoir pressure of 3979 psi which is equivalent to a subsurface pressure gradient of 0.405 psi/ft at gauge depth.

The Average Production Rate which was used in this analysis has been calculated from analysis of the flow pressure curves using a liquid gradient for the recovered oil of 0.345 psi/ft.

For purposes of this analysis a Pay Thickness of 12 feet and an Average Porosity of 6% has been used.

The calculated Skin Factor indicates significant well-bore damage was present at the time of this formation test.

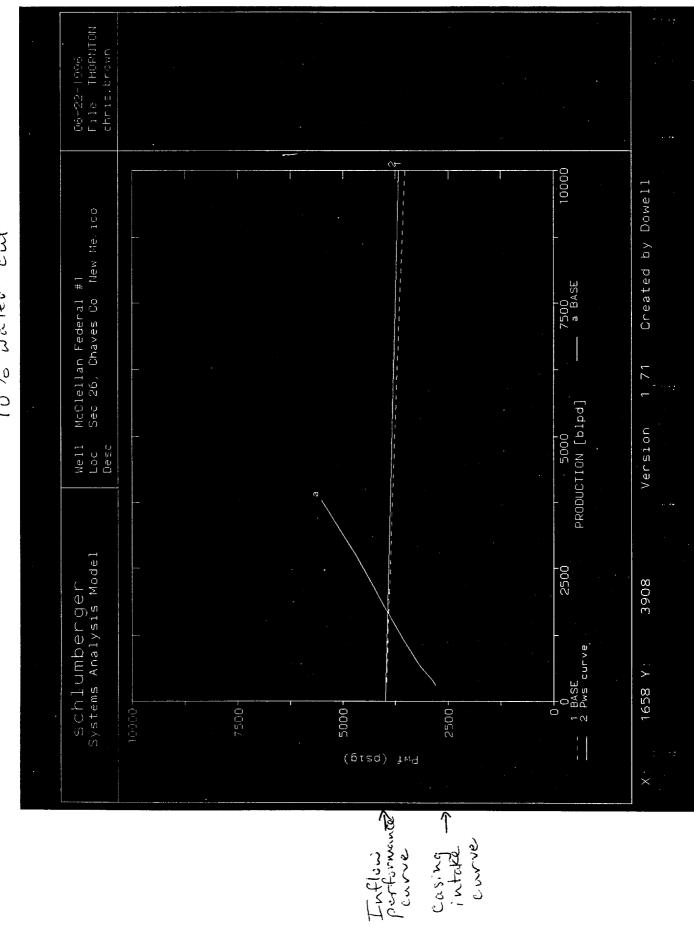
The evaluation criteria used in the drillstem test analysis system indicate this is a good mechanical test and the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. 11615 Exhibit No. 8

Submitted by: Thornton Operating Corporation Hearing Date: October 3, 1996



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. <u>11615</u> Exhibit No. <u>9</u>

Submitted by: Thornton Operating Corporation