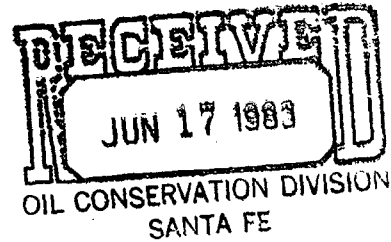


LOBO PRODUCTION  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

June 7, 1983

Mr. Joe D. Ramey, Director  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501



Re: Lobo Production Co.  
#1-Gulf State-36  
Sec. 36, T23N, R6W  
850' FNL & 800' FEL  
Sandoval County, NM

Dear Mr. Ramey:


Lobo Production is hereby requesting permission for downhole coming-line of production in the referenced well from the Counselors Gallup Pool and the Venado Mesa Verde Pool under Rule 303-C of the Oil Conservation Division Rules and Regulations.

Currently the Gallup zone is producing and the Mesa Verde zone is behind pipe. Upon receiving permission for comingling, a completion attempt will be made in the Mesa Verde. If productive, the zone will be tested and potentialized before comingling commences.

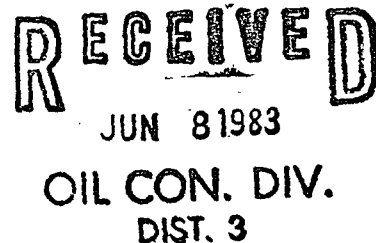
As evidence for permission for comingling, the attached information is offered as required under Rule 303-C-2. If your office requires additional information, please give me a call at (505) 327-0331, or call Dave Simmons, consulting engineer, at (505) 326-2510.

Please inform Lobo Production at P.O. Box 2364, Farmington, New Mexico 87499, as soon as possible of your ruling.

Respectfully submitted,

  
R.E. Lauritsen  
Partner

cc: Mr. Frank Chavez  
Supervisor and Oil and Gas Inspector  
Attachments

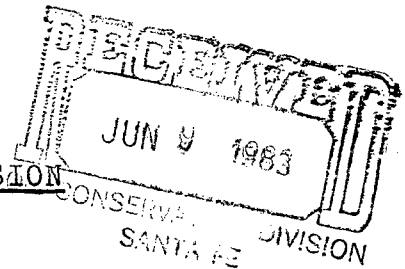


APPLICATION FOR DOWNHOLE

COMMINGLING

to

NEW MEXICO OIL CONSERVATION DIVISION



The following information is submitted as required under rule 303-C-2 in application to the New Mexico Oil Conservation Division for approval of downhole commingling:

- (a) Operator's name and address;

Lobo Production Company  
P.O. Box 2364  
Farmington, New Mexico

- (b) The lease name, well number, and well location are;

Gulf State #1-36  
Sec. 36, T23N, R6W  
850' FNL & 800' FEL  
Sandoval County, New Mexico

- (c) The pools to be commingled are;

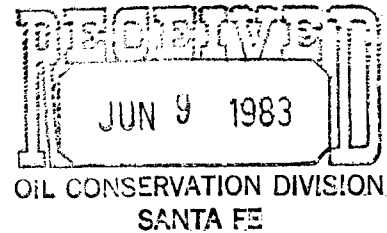
Counselors Gallup  
Venado Mesa Verde (Menefee Sand)

- (d) Exhibit "A" represents a plat of the acreage showing the offsetting ownership. The well of reference has 160 acres dedicated to the Gallup Pool. The acreage dedicated is the NE/4 of Section 36, T23N, R6W, Sandoval County, N.M..
- (e) The well was tested in May 1983 and attached as Exhibit "B" is State Form C116 indicating the current oil, gas and water production. The Mesa Verde zone is behind pipe. It is estimated the initial production from this zone will be 20 BOPD, 10 BWPD and 40-50 MCFD. This estimate is based on offset production.
- (f) Attached for reference are Exhibit "C1"; Production History of the referenced well, Exhibit "C2", production history averaged to days of production on referenced well; Exhibit "D1", Exhibit "D2", and Exhibit "D3", production decline curves of offsetting Gallup producing wells; and Exhibits "E1" & "E2" production decline curves for the two wells currently producing from the Venado Mesa Verde Pool.

**LOBO PRODUCTION**  
*R.E. Lauritsen & Gary Roberts*  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

June 7, 1983

Mr. Joe D. Ramey, Director  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Sante Fe, New Mexico 87501



Re: Lobo Production Co. Ltd.  
#1-Gulf State-36  
Sec. 36, T23N, R6W  
850' FNL & 800' FEL  
Sandoval County, NM

Dear Mr. Ramey:

Lobo Production is hereby requesting permission for downhole commingling of production in the referenced well from the Counselors Gallup Pool and the Venado Mesa Verde Pool under Rule 303-C of the Oil Conservation Division Rules and Regulations.

Currently the Gallup zone is producing and the Mesa Verde zone is behind pipe. Upon receiving permission for commingling, a completion attempt will be made in the Mesa Verde. If productive, the zone will be tested and potentialized before commingling commences.

As evidence for permission for commingling, the attached information is offered as required under Rule 303-C-2. If your office requires additional information, please give me a call at (505) 327-0331, or call Dave Simmons, consulting engineer, at (505) 326-2510.

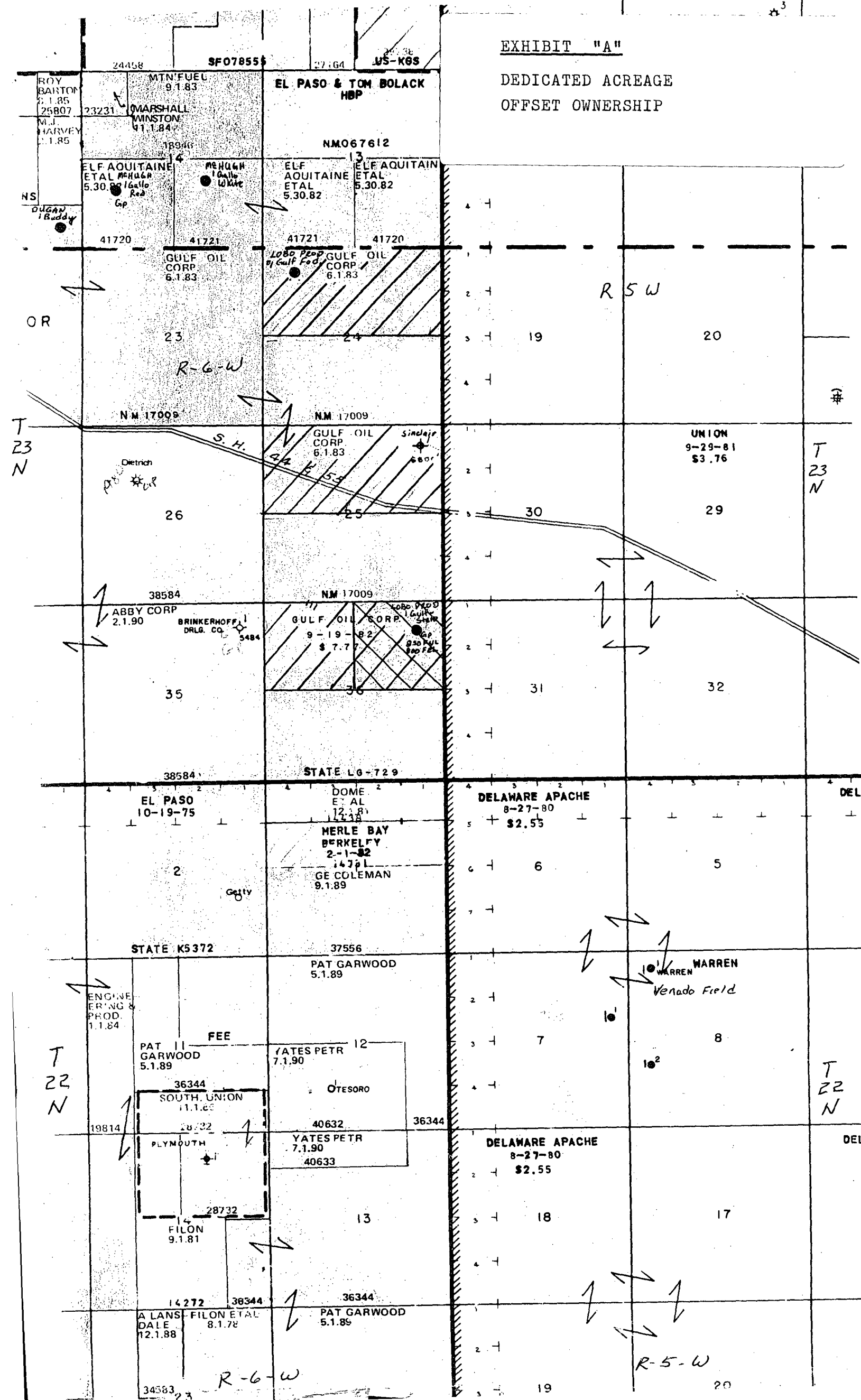
Please inform Lobo Production at P.O. Box 2364, Farmington, New Mexico 87499, as soon as possible of your ruling.

Respectfully submitted,

R.E. Lauritsen  
Partner

cc: Mr. Frank Chavez  
Supervisor and Oil and Gas Inspector  
Attachments

- (g) Attached for reference is a Completion Report covering the completion methods and testing covering the referenced well.
- (h) Attached as Exhibit "F" is the projected decline curves of the Gallup Pool, Mesa Verde Pool and combined production. This curve was produced from analysis of the decline curves of the offsetting wells mentioned previously. The Gallup zone was initialized at 6 BOPD for the remainder of 1983, then declined at 20 percent for the next 3 years and then the production was declined at 10 percent per year thereafter. The Mesa Verde zone was initialized at 20 BOPD for the first six months and declined 35 percent. The next four years were declined at 25 percent then 10 percent thereafter.
- (i) Both zones will require artificial lift and the bottom hole pressures are estimated as follows:  
  
Gallup Zone: 2000 psig.  
Mesa Verde: 1800 psig.
- (j) The oil produced from the Gallup formation has a paraffin base and the API Gravity runs around 43-45°. The oil produced from the Mesa Verde formation is also of a paraffin base and has an API Gravity of 46-48°. There should not be any related problems to commingling these two oils.
- (k) All oil sold in the area is priced the same, therefore there will be no reduction in the value of the oils due to commingling.
- (l) The production shall be allocated to each zone according to the projected decline curve. However, it is anticipated that the Mesa Verde zone will be produced for a month individually to establish an Initial Potential and Gas Oil Ratio. This will establish the starting point for commencing a decline curve.
- (m) Attached for reference are copies of letters mailed to offset operators notifying them of the request for commingling.



NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator Lobo Production Company		Pool Counselors Gallup		County Sandoval											
Address P.O. Box 2364 Farmington, N.M.		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL	OIL BBLs.		GAS M.C.F.
Gulf-State 36	1	A	36	23N	6W	5-24-83 P	1/4	35	4.5	24	1/2	46	6.3	59	9365:1
<p>Note: Special test run subject to Rule 303-C to gather data for commingling order.</p> <p>EXHIBIT " B "</p> <p>GULF-STATE # 1-36 Gas Oil Ratio</p>															

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
(Signature)

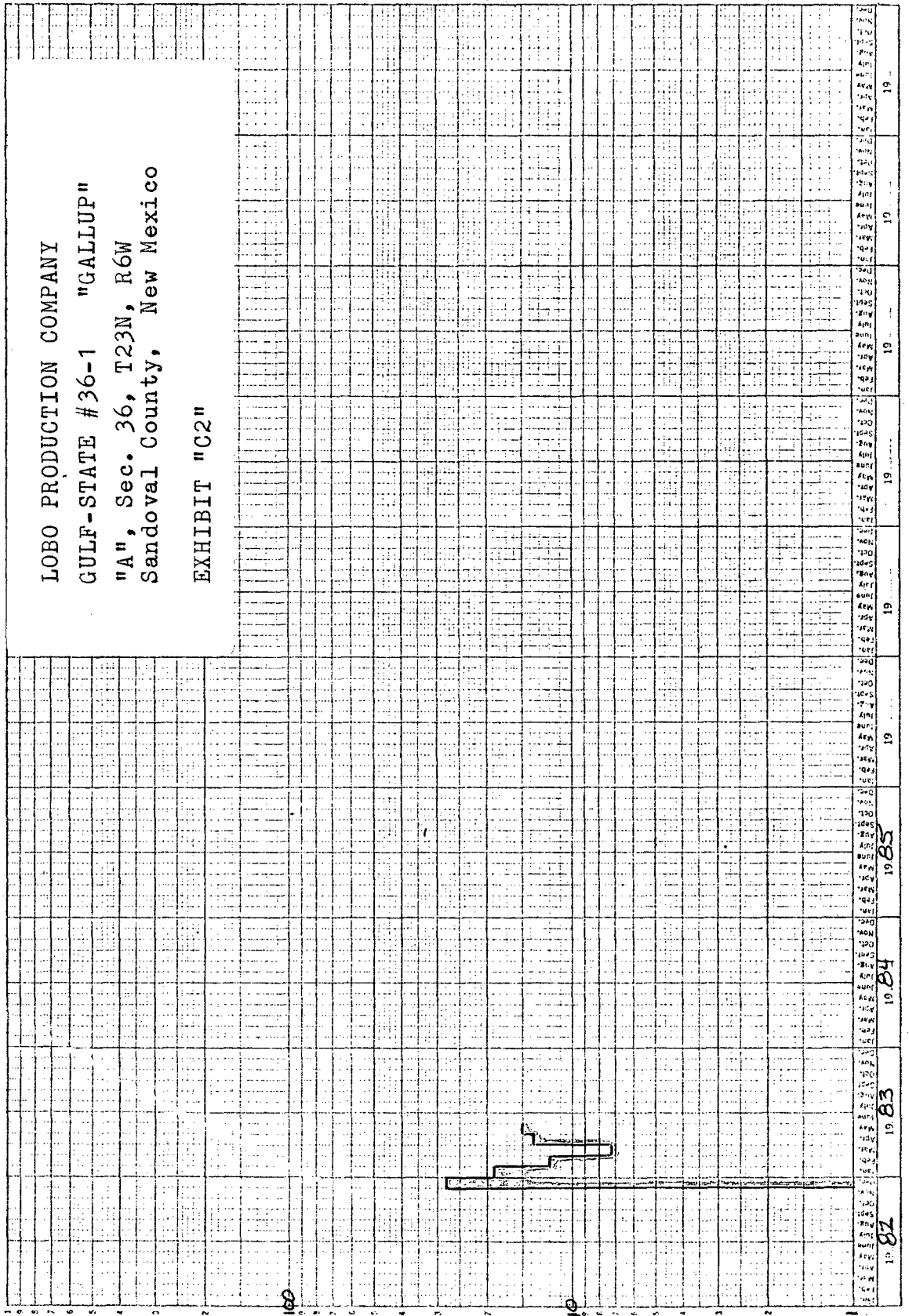
Agent  
June 2, 1983  
(Title)  
(Date)

LOBO PRODUCTION COMPANY  
GULF-STATE #36-1 "GALLUP"  
"A", Sec. 36, T23N, R6W  
Sandoval County, New Mexico  
EXHIBIT "C1"

[illegible]

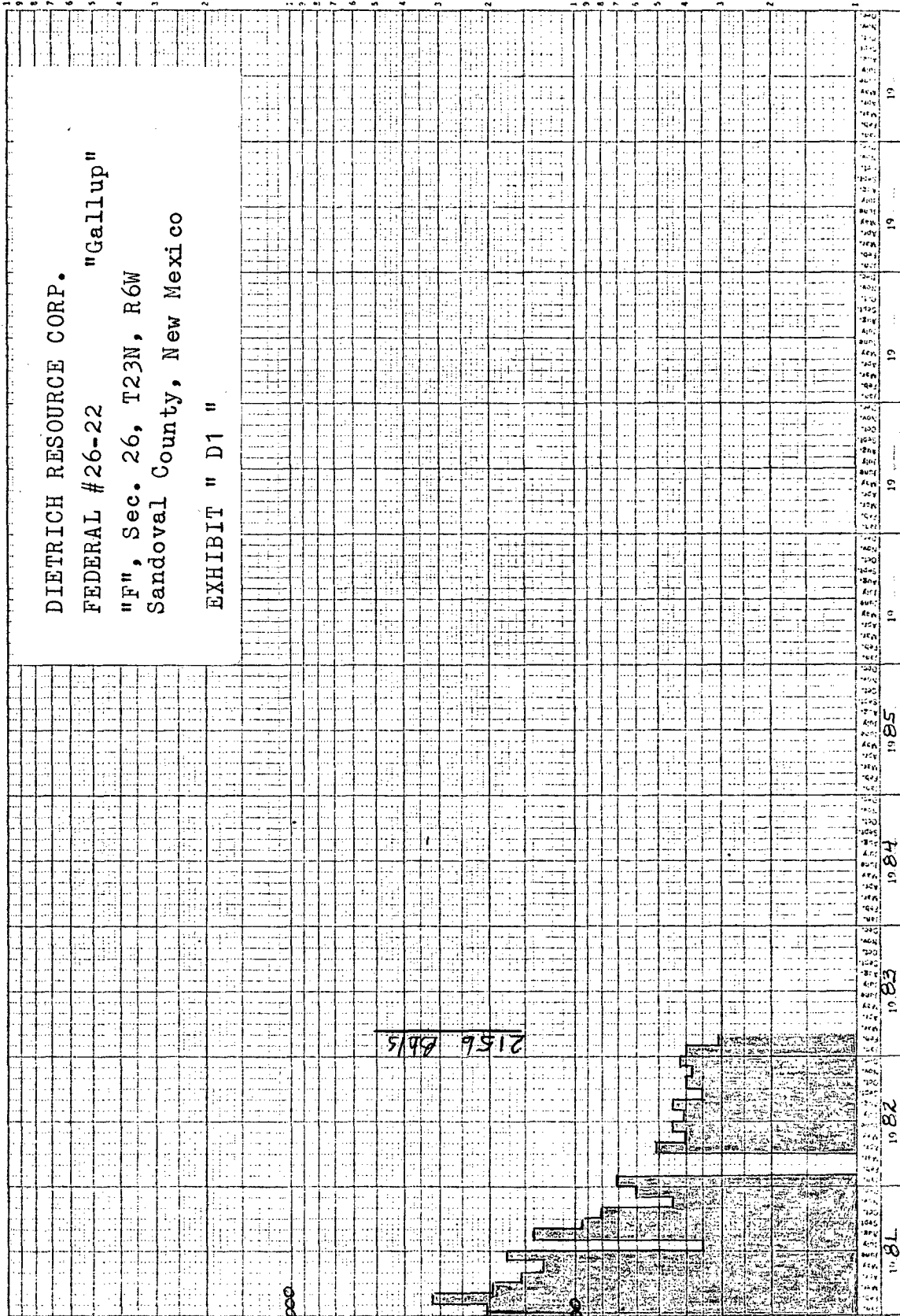
LOBO PRODUCTION COMPANY  
 GULF-STATE #36-1 "GALLUP"  
 "A", Sec. 36, T23N, R6W  
 Sandoval County, New Mexico  
 EXHIBIT "C2"

BOPD (avg)





DIETRICH RESOURCE CORP.  
 FEDERAL #26-22 "Gallup"  
 "F", Sec. 26, T23N, R6W  
 Sandoval County, New Mexico  
 EXHIBIT " D1 "

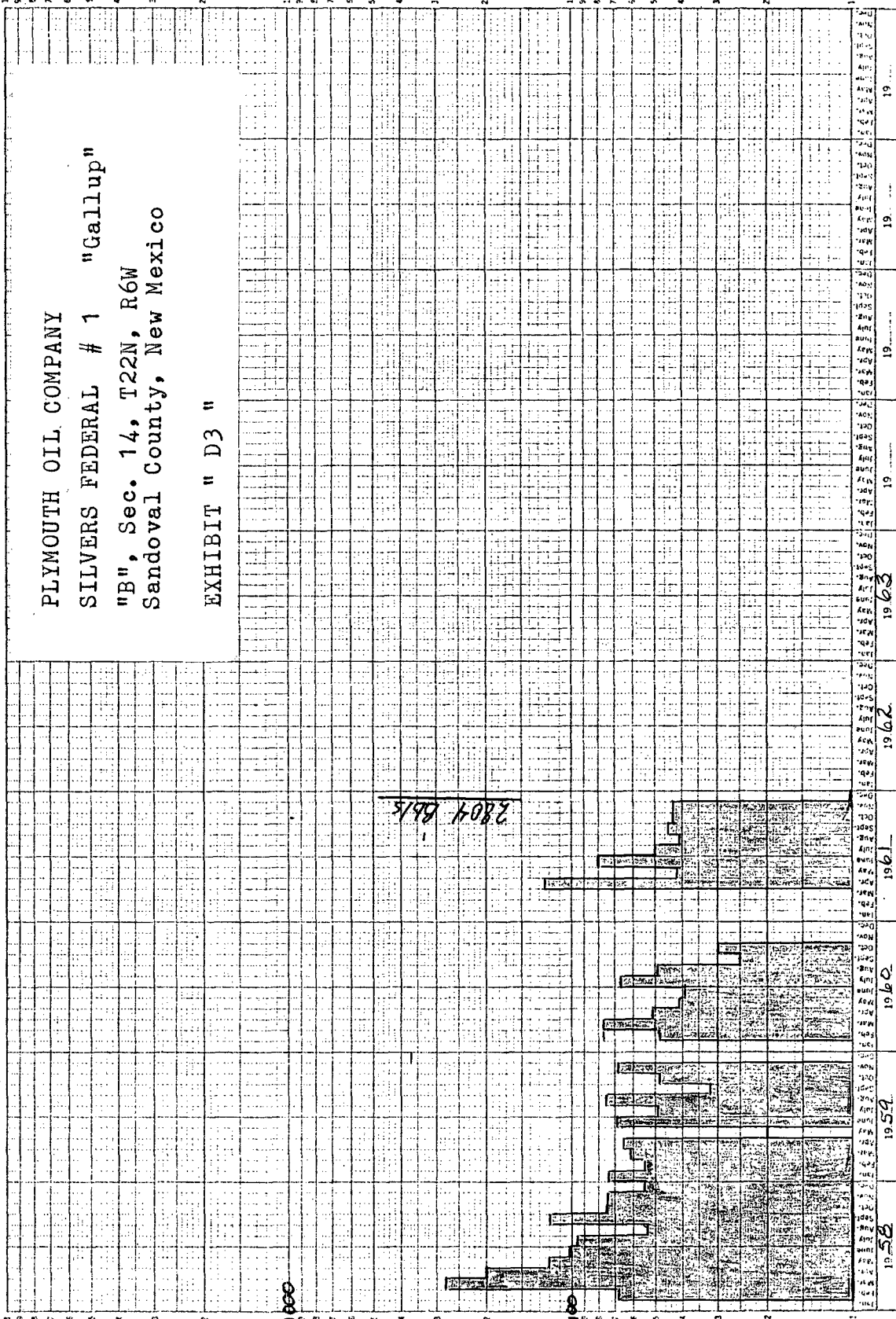


500 Mo.

TESORO PETROLEUM CORPORATION  
DOUBLE OUGHT #1 "Gallup"  
"N", Sec. 12, T22N, R6W  
Sandoval County, New Mexico  
EXHIBIT " D2 "

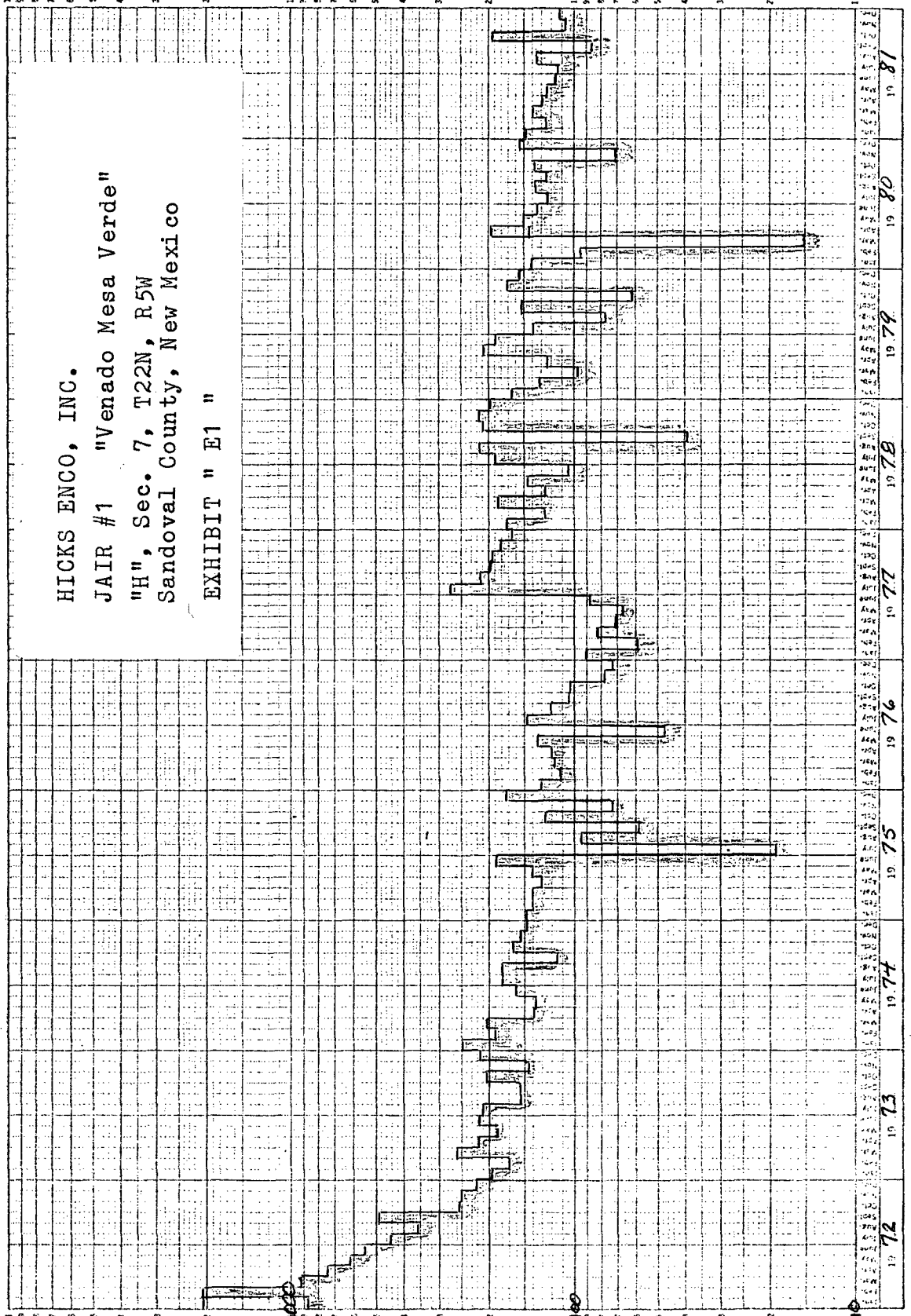
3

PLYMOUTH OIL COMPANY  
 SILVERS FEDERAL # 1 "Gallup"  
 "B", Sec. 14, T22N, R6W  
 Sandoval County, New Mexico  
 EXHIBIT " D3 "



600 m.

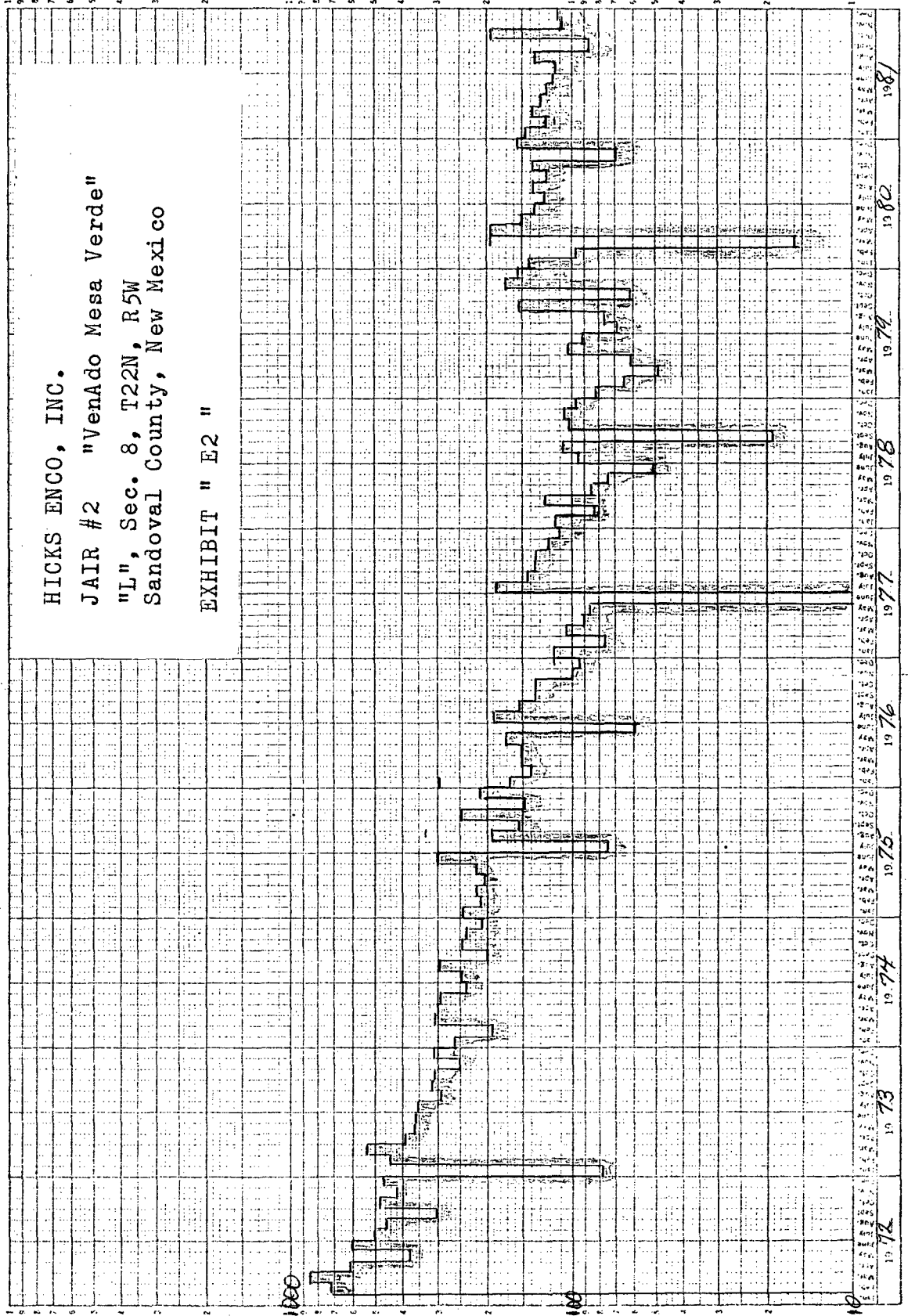
HICKS ENCO, INC.  
 JAIR #1 "Venado Mesa Verde"  
 "H", Sec. 7, T22N, R5W  
 Sandoval County, New Mexico  
 EXHIBIT " E1 "



B D P M b

HICKS ENCO, INC.  
JAIR #2 "Venado Mesa Verde"  
"L", Sec. 8, T22N, R5W  
Sandoval County, New Mexico

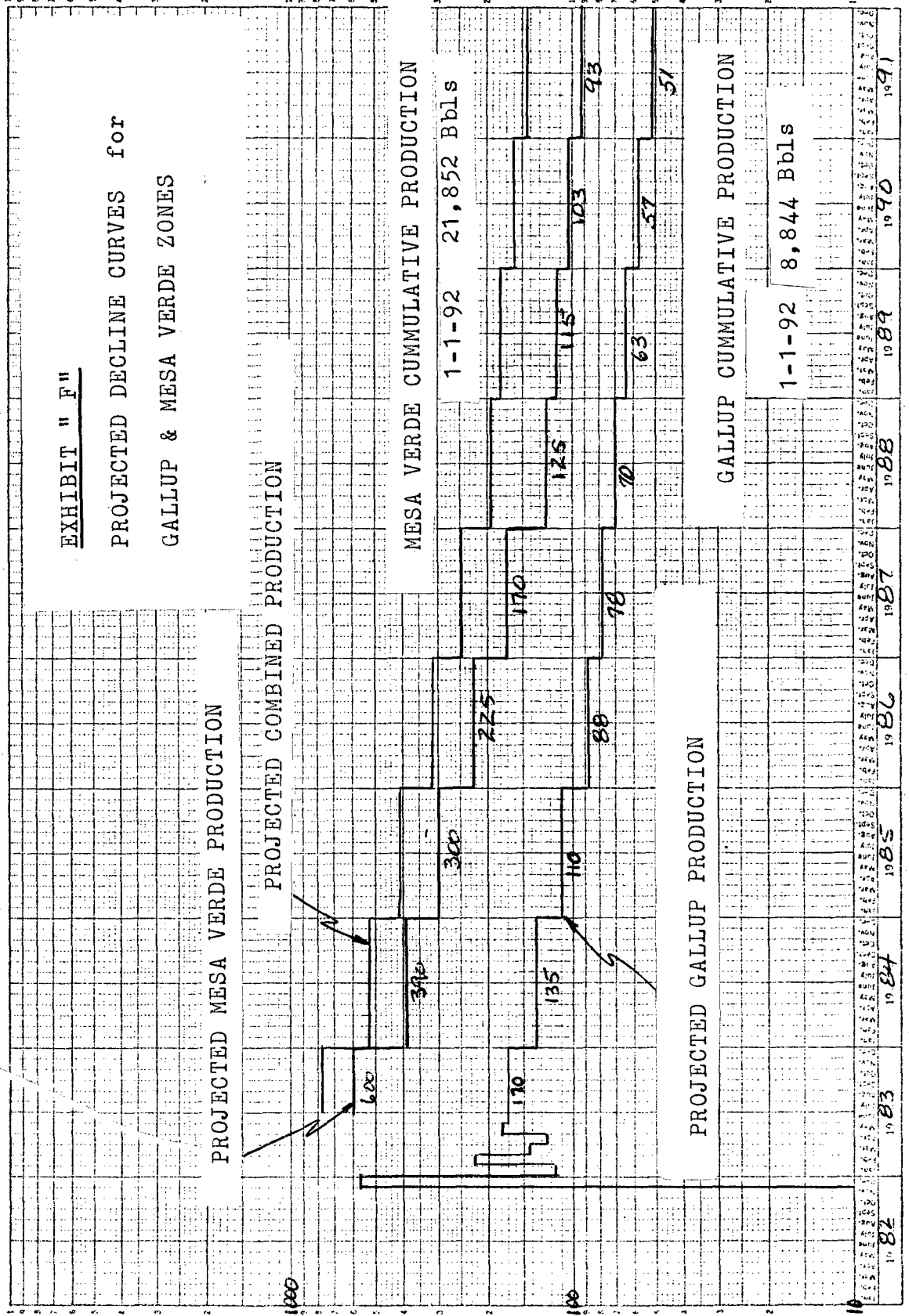
EXHIBIT " E2 "



BOPM (Aug.)

EXHIBIT "F"

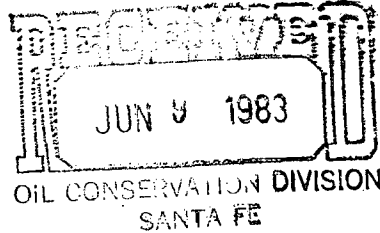
PROJECTED DECLINE CURVES for  
GALLUP & MESA VERDE ZONES



LOBO PRODUCTION  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

*Rec'd 5/24/83  
return via registered  
Dave Simmons*

May 23, 1983



Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800" FEL  
Sandoval County,  
New Mexico

Jicarilla Apache  
Oil and Gas Division  
P.O. Box 507  
Dulce, NM 87528

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

Sincerely,

*R.E. Lauritsen*  
R.E. Lauritsen

*Letter 5/24/83  
Return to sender*

**LOBO PRODUCTION**  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

May 23, 1983



Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800" FEL  
Sandoval County,  
New Mexico

Gulf Oil Exploration  
P.O. Box 2100  
Houston, Texas 77252

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

Sincerely,

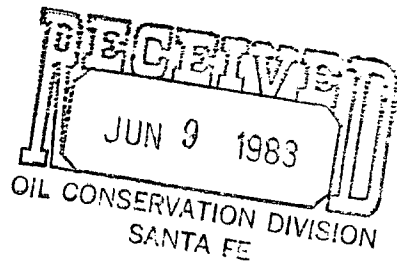
A handwritten signature in cursive script, appearing to read "R.E. Lauritsen".

R.E. Lauritsen



*Letter 5/24/83  
return was requested*

**LOBO PRODUCTION**  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331



May 23, 1983

Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800" FEL  
Sandoval County,  
New Mexico

George Coleman  
P.O. Box Drawer 3337  
Farmington, NM 87499

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

Sincerely,

R.E. Lauritsen

*Done 5/24/83  
return to sender*

**LOBO PRODUCTION**  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

May 23, 1983



Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800' FEL  
Sandoval County,  
New Mexico

Abby Corporation  
P.O. Box 1629  
Grand Junction Colo 81502

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

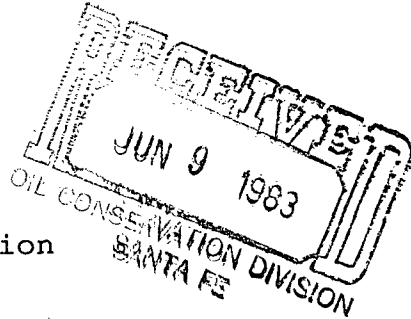
Sincerely,

R.E. Lauritsen

*Letter 5/24/83  
return rec. reported*

**LOBO PRODUCTION**  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331

May 23, 1983



Dretrick Exploration  
410 17th St.  
Suite 2450  
Denver, Colo 80202

Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800" FEL  
Sandoval County,  
New Mexico

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

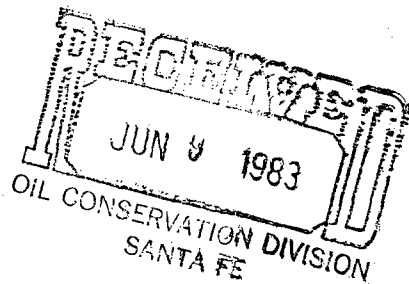
Thank you for your cooperation.

Sincerely,

R.E. Lauritsen

*Rec 5/24/83*  
*Return to sender*

**LOBO PRODUCTION**  
R.E. Lauritsen & Gary Roberts  
P.O. BOX 2364  
FARMINGTON, NEW MEXICO 87401  
TELEPHONE: (505) 327-0331



May 23, 1983

Re: #1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800" FEL  
Sandoval County,  
New Mexico

El Paso Exploration Co.  
P.O. Box 1492  
El Paso Texas 79978

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

Sincerely,

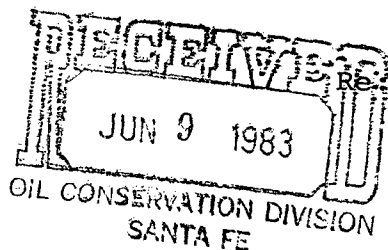
R.E. Lauritsen

*Letter 5/24/83  
re: Lobo Production*

**LOBO PRODUCTION**  
**R.E. Lauritsen & Gary Roberts**  
**P.O. BOX 2364**  
**FARMINGTON, NEW MEXICO 87401**  
**TELEPHONE: (505) 327-0331**

May 23, 1983

Petroleum Exchange  
717 N. Harwood St.  
Suite 800  
Dallas, Texas 75201



#1 Gulf-State-36  
Sec. 36, T23N, R6W  
850' FNL, 800' FEL  
Sandoval County,  
New Mexico

An application is being prepared to obtain permission to commingle production from the lower Gallup formation and from a sand in the Menefee formation (Mesa Verde) in the Lobo Production, #1 Gulf-State-36. The well is located 850' FNL, 800' FEL, Section 36, T23N, R6W, Sandoval County, New Mexico.

If you have any objections or comments regarding the commingling, please contact the New Mexico Oil Conservation Division as follows:

Mr. Joe D. Ramy, Director  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Thank you for your cooperation.

Sincerely,

R.E. Lauritsen

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

Add your address in the "RETURN TO" space on reverse.

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one):

☒ Show to whom and date delivered ..... ☐

☐ Show to whom, date, and address of delivery .. ☐

2. ☐ **RESTRICTED DELIVERY** ..... ☐  
(The restricted delivery fee is charged in addition to the return receipt fee.)

**TOTAL \$** .....

3. ARTICLE ADDRESSED TO:  
*Jacana Apache*  
*P.O. Box 507*  
*Julia N.M. 87528*

4. TYPE OF SERVICE: ARTICLE NUMBER  
☒ REGISTERED ☐ INSURED  
☒ CERTIFIED ☐ COD  
☐ EXPRESS MAIL  
*P495-058-967*

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☐ Authorized agent  
*Mary A. Peltz*

5. DATE OF DELIVERY *6/2/83* POSTMARK *JUL 2 1983*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS *CW*

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

Add your address in the "RETURN TO" space on reverse.

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one):

☐ Show to whom and date delivered ..... ☐

☐ Show to whom, date, and address of delivery .. ☐

2. ☐ **RESTRICTED DELIVERY** ..... ☐  
(The restricted delivery fee is charged in addition to the return receipt fee.)

**TOTAL \$** .....

3. ARTICLE ADDRESSED TO:  
*PETROLEUM Exchange*  
*717 N. Harwood Suite 800*  
*DALLAS TEXAS 75201*

4. TYPE OF SERVICE: ARTICLE NUMBER  
☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL  
*P495-058-971*

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☐ Authorized agent  
*Robin Cornach*

5. DATE OF DELIVERY POSTMARK *DALLAS TEXAS 1983*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one):

☐ Show to whom and date delivered ..... ☐

☐ Show to whom, date, and address of delivery .. ☐

2. ☐ **RESTRICTED DELIVERY** ..... ☐  
(The restricted delivery fee is charged in addition to the return receipt fee.)

**TOTAL \$** .....

3. ARTICLE ADDRESSED TO:  
*GEO COLEMAN*  
*P.O. Box Dravv. 3337*  
*Tring. 7m. 87401*

4. TYPE OF SERVICE: ARTICLE NUMBER  
☐ REGISTERED ☐ INSURED  
☐ CERTIFIED ☐ COD  
☐ EXPRESS MAIL  
*P495-058-972*

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☐ Authorized agent  
*[Signature]*

5. DATE OF DELIVERY POSTMARK *[Postmark]*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS *[Initials]*

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

7a. EMPLOYEE'S INITIALS

**SIMMONS ENGINEERING & CONSULTING CO.**

**5704 VILLA VIEW DRIVE**

**FARMINGTON, NEW MEXICO 87401**

**PHONE (505) 326-2510 • RADIO CONTACT (505) 325-1873**

**COMPLETION REPORT**

**for**

**LOBO PRODUCTION**

**GULF STATE NO. 1-36**

**850' FNL & 800' FEL, Sec. 36, T23N, R6W**

**SANDOVAL COUNTY, NEW MEXICO**

**ELEVATION: 6919 KB**

**WILDCAT GALLUP**

A handwritten signature in dark ink, appearing to read "R. D. Simmons", is written over a horizontal line.

**R. D. Simmons**



**SIMMONS ENGINEERING & CONSULTING CO.**  
5704 VILLA VIEW DRIVE  
FARMINGTON, NEW MEXICO 87401  
PHONE (505) 326-2510 • RADIO CONTACT (505) 325-1873

COMPLETION PROGNOSIS

LOBO PRODUCTION  
GULF-STATE NO. 1-36  
850' FNL & 800' FEL Sec. 36, T23N, R6W  
SANDOVAL COUNTY, NEW MEXICO  
ELEVATION: 6919 KB.  
WILDCAT GALLUP

Completion Rig:	Action Well Service	327-6006
	Radio Service	327-7062
Stimulation:	Halliburton	325-3575
Logging:	Basin Perforators	327-5244
Frac tanks & water:	Dawn Trucking	327-6316
Supplies:	Rig Equipment	327-4927
Trucking:	Dawn Trucking	327-6316

Directions: Go South from Bloomfield, New Mexico on highway 44  
2½ miles south of Counselors Trading Post and turn  
right on access road.

Casing: 4½, 10.5#, K55, ST&C, 8rd. D.V. Tool @ 4300' KB.  
PBD @ 5563' KB. Cemented in 2 stages, with 980 sks.

Representative:	Dave Simmons	326-2510
	Radio Contact	325-1873
	Unit	2514

LOBO PRODUCTION  
GULF-STATE 1-36  
COMPLETION PROGNOSIS - PROCEDURE

1. Move Action Well Service on location, install BOP, talley 2-3/8" tubing and run in hole with 3-7/8" mill tooth bit. Clean out cement to top of D.V. tool. Pressure test casing with rig pump to 2000 psig before drilling D.V. tool. Clean out to PBTD and circulate hole clean.
2. Pressure test casing with Halliburton to 3000 psig. Circulate hole with 1% KCL water. Pull tubing to 5470' and spot 500 gallons 7½% HCL acid.
3. Run Gamma ray, CCL log from PBTD to 4000'.
4. Perforate using 3-1/8" guns 0.38" holes as follows:

5378 - 5390	1 jspf	12 holes
5406 - 5416		10 "
5426 - 5430		4 "
5456 - 5470		16 "

Total of 42 holes
5. Acidize down casing with 2000 gallons 15% HCL acid and drop 65 ball sealers and ball off if possible. Run junk basket on wireline and retrieve balls.
6. Fracture treat down casing with 75,000# 20/40 sand in slick water as follows at 60-75 BPM:

15,000	gallons	PAD	
5,000	"	@ 1/2#	20/40
10,000	"	@ 1#	
15,000	"	@ 1½#	
20,000	"	@ 2#	

Flush to bottom perforation.
7. Run Retrievable Bridge Plug on 2-3/8" tubing and set @ 5350'. Pressure test BP to 3000 psig. Pull tubing to 5300' and spot 500 gallons 7½% HCL acid.
8. Perforate with 3-1/8" guns 0.38" holes as follows:

5040 - 5050	1 jspf	10 holes	
5060 - 5066		6 "	
5250 - 5265		15 "	
5270 - 5275		6 "	
5286 - 5300		14 "	Total 51 holes
9. Acidize down casing with 2000 gallons 15% HCL acid and drop 70 ball sealers and ball off if possible. Run junk basket and retrieve balls.

LOBO PRODUCTION  
GULF-STATE 1-36  
COMPLETION PROGNOSIS - PROCEDURE

10. Fracture treat down casing with 75,000# 20/40 sand in slick water as follows at 60-75 BPM:  
SAME SCHEDULE AS ABOVE !  
Flush to bottom perforation.
11. Run tubing and clean out to BP. Pull BP. Clean out to PBTD with rig pump or N<sub>2</sub> as required.
12. Land tubing at 5500' with 30' mud shoe, 3' perforated sub and Seating Nipple. Swab test to pit or frac tank to establish flow or requirement for pump.



R. D. Simmons

October 14, 1982

LOBO PRODUCTION  
GULF STATE 1-36  
COMPLETION REPORT

- 10-23-82 Moved Action Well Service Rig 5 on location. Welded on bell nipple. installed Bop and wellhead. Tallied 2-3/8" tubing and ran mill tooth bit in hole. Tagged cement at 5154' Drilled cement out to DV tool @ 5300'. Pressure tested casing to 2000 psig with rig pump. Test okay. Drilled DV tool and cleaned out to PBTD @ 5557'. Circulated hole with rig pump and shut down.
- 10-25-82 Pressure tested casing with Western Co. to 3000 psig for 15 minutes. OK. Circulated hole with 1% KCL water and spot 500 gallons 7½% HCL acid. Pulled tubing and rigged up perforaters. Ran GR-CCL log from PBTD to 4300'. Perforated using 3-1/8" cased hole guns 5378-90'. 5406-16', 5426-30, 5456-70'. Total of 42 holes. Shut well in for the night.
- 10-26-82 Broke down perforations and acidized with 2000 gallons 15% HCL acid and balled off at 2950 psig. Ran wireline junk basket and retrieved balls. Frac'd down casing with slick water: 75,000# 20/40 sand as follows: 15,000 gallons PAD, 5,000 gallons @ 1/2#, 10,000 gallons @ 1#, 35,000 gallons @ 1-1/2#, 5,000 gallons at 2#, and flushed over by 10 bbls. ISIP 800 psig, ATR of 65 BPM, ATP of 2900 psig. Ran Baker retrievable Bridge Plug on wireline and set @ 5350'. Ran tubing to 5300' and spot 500 gallons 7½% HCL acid. Pressure tested casing to 3000 psig. OK. Perforated second stage as follows: 5040-50, 5060-66, 5250-65, 5270-75, 5286-5300'. Acidized down casing with 2000 gallons 15% HCL acid and balled off. Breakdown pressure 1100 psig. Isip 800 psig. Ran wireline junk basket and recovered balls. Shut down.
- 10-27-82 Western Frac'd down casing with slick water as follows: 15,000 gallons PAD; 5,000 gallons @ 1/2#, 20/40 sand; 10,000 gallons @ 1#, 41,667 gallons @ 1½#, Lost one pump and finished frac on one pound sand. Frac'd @ 69 BPM @ 2900 psig, and 2300 psig @ 60 BPM after losing pump. Pumped total of 75,000# 20/40 sand in 66,667 gallons slick water. ATR of 66 BPM; ATP of 2700 psig. ISIP 700 psig. Shut well in for 2 hours and opened to pit with 500 psig on casing. Flowed well thru 3/4 ck ith 375 psig. Flowed well to pit until pressure dropped. Ran tubing in hole and tagged sand @ 5130'. Pulled 4 stands and shut down. Left well flowing to pit over night.
- 10-28-82 Well dead this AM. Circulated sand off BP and recovered BP. Bottom zone flowing sand and water. Ran tbg back in hole and circulated sand out to PBTD. Pulled 6 stands off btm. and shut down. Slight show of gas.

LOBO PRODUCTION  
GULF STATE #1-36  
COMPLETION REPORT

- 10-29-82 Well dead this AM. Rab tubing in hole to PBTD to check sand fill. Pulled one stand and rigged up swab tools. Fluid level at surface first run. Made total of 38 runs and recovered 200 bbls. fluid. Well gassing 1 min. before each run. Fluid level down to 2800'.
- 10-30-82 Well dead this AM. Fluid level 500' first run. Ran tbg. to PBTD to check sand. No sand fill. Pulled tubing and ran in hole as follows: Bull plug, one joint tbg., 3' perforated sub, seating nipple and 169 joints 2-3/8" 4.7#, CW55, EUE 8rd and landed with btm. at 5465' KB. Nippled down BOP and nipped up wellhead. Fluid level @ 2000'. Made total of 28 runs and recovered 120 bbls. frac water. Rig down for repairs 2 hours. Gas before run 30 seconds at beginning and 80 seconds at end of day. Shut well in for night.
- 11-1-82 Tubing and casing pressure zero this AM. Moved Action Well Service Rig 3 off location and moved Action Swab Co. on location. Fluid level 300' first run. Made 20 runs and recovered 100 bbls. fluid. Slight amount of gas and only trace of oil.
- 11-2-82 Swabbed well to pit. Trace of oil and show of gas.
- 11-3-82 Swabbed to pit.
- 11-4-82 Swabbed to pit.
- 11-5-82 Swabbed to pit. Released rig.
- 11-19-82 Moved swab unit on location. Swabbed to tanks. Oil cut 25%.
- 11-20-82 Swabbed to tank. Oil cut 30%.
- 11-22-82 Kicked well off to tanks. Flowed with oil cut of 30%.
- 11-23-82 Well kicked off by itself to tanks. Flowed 2 hours and placed on production through production unit. Well flowed for 1 hour and died. Had released swab unit. Shut well in for night.
- 11-26-82 Opened well to production unit with 200 psig on tbg. and 1100 psig on casing. Tubing bled down and well would not flow. Left well open @ 12:00 PM. Moved Black Gold rig on location. Well had kicked off before rigged up and was flowing with 400 psig on tubing. Flowed to tanks through production unit for 4½ hours. Made over 20 bbls. fluid. Left well open to production unit.
- 11-27-82 Well had not flowed to tanks. Casing pressure 1100 psis, tubing 50 psig. Rigged up Black Gold and made one swab run. Fluid level @ 2000'. Kicked well off and rigged down rig. Flowed well to tanks for 1½ hours and recovered 30 bbls. fluid. Tubing pressure dropped to 50 psig and casing pressure dropped to 750 psig. Shut-in.

LOBO PRODUCTION  
GULF STATE 11-36  
COMPLETION REPORT

- 12- 1-82      Flowed well to tanks and then put through unit.  
                 Flowed 3 hrs. and logged off. Shut well in.
- 12- 2-82      Opened to tanks and kicked off after 1 hr. Put  
                 through unit and flowed 30 minutes. Shut in with  
                 700 psig on tubing. Opened after 30 minutes and  
                 flowed through unit with 12/64 choke. Left well open  
                 to unit.
- 12- 3-82      Well had not produced over night. Shut well in.
- 12-7-82      Instsllled motor valve and bottom hole tubing stop  
                 and spring. Blew well down and installed nipple  
                 and valve on casing side. Started swabbing well.  
                 Fluid level first run at 2200'. Made total of 11 runs  
                 and recovered 70 bbls. fluid. Well kicked for 20  
                 minutes after last four runs. Fluid level down to  
                 2500' with casing pressure down to 450 psig. Shut well in.
- 12- 8-82      Casing pressure 875 psig and 500 psig on tubing. Drained  
                 tank form 10' to 7' 6". Opened well and waited 1½ hrs.  
                 but would not flow. Made one run and kicked well off.  
                 Shut well in when casing pressure dropped to 775 psig.  
                 After two hours opened well up. Well kicked off after  
                 one hour and flowed to tanks. Placed well on timer  
                 at 3 hrs. off and 45 minutes on. Last pressures were  
                 750 casing and 250 tubing. Last tank guage 9' 10".  
                 Made total of 47 bbls. fluid.
- 12- 9-82      Well was logged off in AM with 950 psig on casing and  
                 100 psig on tubing. Made one swab run with fluid level  
                 at 2000' and kicked well off. Place well through  
                 unit to check for dumping and shut well in. Reset timer  
                 for 4 hours off and 2 hours on. Well came on after 4  
                 hours but wouldn't operate against 100 psig back  
                 pressure. Dropped pressure to 60 psig and well started  
                 producing and choke setting of 18/64. Made 9" fluid  
                 or 15 bbls. Last pressures 850 psig casing and 400 psig  
                 on tubing. Left well open to unit with timer set 4 off  
                 2 on.
- 12-10-82      Well logged off with 925 psig casing pressure and 150  
                 psig on tubing. Kicked well off through seperator  
                 with fluid level at 3500' and produced 25 bbls. fluid.  
                 Well logged off and started swabbing. Recovered 60  
                 bbls. fluid with fluid level at 3500'. All fluid swabbed  
                 was water. Placed well back on timer and left on line  
                 through seperator.
- 12-11-82      Well logged off with 925 psig on casing and 250 psig on  
                 tubing. Fluid level 1200'. Kicked well off with one  
                 run and flowed 2½ hours. Recovered 21 bbls fluid.  
                 Swabbed well rest of day and well would flow 20 mins.  
                 after each run. Recovered 70 bbls fluid for day.  
                 last pressure 350 psig casing and zero tubing. Fluid  
                 level down to 4300'. Placed well on timer at 10 off 2 on.
- SIMMONS ENGINEERING & CONSULTING CO.

LOBO PRODUCTION  
GULF STATE # 1-36  
COMPLETION REPORT

- 12-13-82 Well logged off with 850 psig casing and 60 psig on tubing. Fluid level first run at 2000'. Kicked well off with one run. Flowed 2 hours and logged off. Swabbed well rest of day and flowed 20 minutes after each run. Recovered 62 bbls. fluid 50% oil. Fluid level down to 4500' with casing pressure 300 psig. Shut well in.
- 12-14-82 Pressure this AM 725 psig on casing and 300 psig on tubing. Open well to tanks and kicked off and flowed 1½ hours. Well logged off. Fluid level first run at 3500' with 400 psig on casing. Recovered 45 bbls. fluid for day. Oil cut 50%. Last casing pressure 275 psig. Fluid level 4700'. Shut well in for night.
- 12-15-82 Well shut-in with 725 psig on casing and 425 psig on tubing. Rigged down Silver Star Swabbing and moved off location. Left well shut-in.



R. D. Simmons

# SIMMONS ENGINEERING & CONSULTING CO.

5704 VILLA VIEW DRIVE

FARMINGTON, NEW MEXICO 87401

PHONE (505) 326-2510 • RADIO CONTACT (505) 325-1873

## CASING AND TUBING SUMMARY

Date October 8, 1982

Operator LOBO Production Lease Gulf-State Well NO. 1-36  
 State New Mexico County Sandoval Total Depth 5605  
 Casing-~~Tubing~~<sup>XXXXXX</sup>, Size O.D. 4 $\frac{1}{2}$ , Weight 10.5 lb./ft., Type K55  
 Threads STC 8rd Hole Size 7-7/8 Cement Two stages with  
980 sacks (Halliburton) Top of Cement Not Meas.  
 Plug Down, Time 12:30 Date 10/8/82 K.B. above G.L. 12.00  
3:30

	<u>Joints</u>	<u>Footage</u>
Delivered to location (Footage, Thds. off)	<u>130</u>	<u>5650.96</u>
Amount run	<u>129</u>	<u>5607.19</u>
Guide shoe ( <u>1.00</u> ), Float Collar( <u>      </u> ), D.V. ( <u>3.00</u> ), ( <u>      </u> ) plus		<u>4.00</u>
Amount Cut Off less		<u>18.19</u>
Total Amount Run (Footage THds off)	<u>129</u>	<u>5593.00</u>
K. B. to top of casing or tubing plus		<u>12.00</u>
Depth Landed		<u>5605.00</u>
Amount not Run(Footage Thds off)	<u>1</u>	<u>43.77</u>
Amount Cut off plus		<u>18.19</u>
Total Amount Not Run	<u>1</u>	<u>61.96</u>

Remarks: D.V. Tool @ 4300' : placed below Mesa Verde Formation  
Ran 7 centralizers and one cement basket. 5 on bottom and 2 at  
D.V. Tool.

R.D. Simmons



**D.B.A.**



**P.O. BOX 1496 • FARMINGTON, NEW MEXICO 87401 • PHONE: 325-5225**

DATE Oct 23 1982  
COMPANY Lozano Production  
LEASE Gulf State  
WELL NO. 1-36  
STATE New Mexico  
SIZE 4 1/2  
THIS PIPE TALLIED BY RJ Sumner

	IN.		IN.		IN.		IN.		IN.		IN.	
	WT.		WT.		WT.		WT.		WT.		WT.	
	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.
1	43	90	43	78	43	80	43	90	43	85	43	83
2	43	58	42	95	37	00	41	07	43	78	43	50
3	43	95	43	81	43	46	43	53	43	92	43	83
4	43	88	43	79	43	80	43	93	43	54	43	87
5	43	53	43	80	43	90	43	90	43	87	43	98
6	43	88	41	66	43	93	42	78	41	22	43	90
7	43	65	43	88	43	90	40	81	43	46	43	85
8	43	86	43	80	43	27	43	91	43	00	43	88
9	43	77	43	86	43	80	43	93	42	87	43	83
10	43	76	43	43	43	84	43	82	43	57	43	45
11	43	53	43	87	43	85	43	91	43	76	43	86
12	43	43	43	54	43	15	43	80	43	64	43	85
13	43	83	43	90	43	82	43	87	43	73	43	78
14	43	85	43	93	43	92	43	24	41	21	43	27
15	43	78	43	95	43	88	43	88	43	86	43	83
16	43	87	43	80	43	44	43	88	43	82	43	22
17	42	76	43	41	43	81	43	82	38	40	43	82
18	43	91	43	80	43	88	40	31	43	87	43	45
19	43	79	43	30	43	83	43	31	40	67	43	38
20	43	58	43	80	43	94	43	81	43	82	43	70

## O &amp; G SERVICE, INC.

D.B.A.



P.O. BOX 1496 • FARMINGTON, NEW MEXICO 87401 • PHONE: 325-5225

Oct 23 19 82  
 COMPANY Lobo Production  
 LEASE Gulf State  
 WELL NO. 1-36  
 STATE New Mexico  
 SIZE 4 1/2  
 THIS PIPE TALLIED BY T. J. Simmons

	IN.		IN.		IN.		IN.		IN.		IN.	
	WT.		WT.		WT.		WT.		WT.		WT.	
	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.
1	43	80										
2	43	42										
3	43	00										
4	43	83										
5	43	90										
6	43	78										
7	43	88										
8	43	63										
9	43	86										
10	43	77										
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
TOT-ALS												



October 23- 19 82

COMPANY Lobo Production

LEASE \_\_\_\_\_

WELL NO. H/ GULF State 36

STATE New Mexico

SIZE 2 7/8 tubing 120

THIS PIPE TALLIED BY \_\_\_\_\_

	_____ IN.		_____ IN.		_____ IN.		_____ IN.		_____ IN.		_____ IN.		_____ IN.	
	WT. _____		WT. _____		WT. _____		WT. _____		WT. _____		WT. _____		WT. _____	
	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.
1	32	34	31	60	32	36	32	30	32	33	32	29		
2	32	36	32	35	32	36	32	30	32	35	32	30		
3	32	38	32	30	32	90	32	34	32	79	32	35		
4	32	34	32	30	32	34	32	33	32	31	32	89		
5	32	37	32	35	32	35	32	33	32	34	32	34		
6	32	32	32	35	32	80	32	35	32	34	30	58		
7	32	36	32	36	32	35	32	28	32	32	32	30		
8	32	78	32	37	32	34	32	30	32	34	32	31		
9	32	32	32	36	32	70	32	75	32	31	30	70		
10	32	35	32	36	32	34	32	35	32	35	32	36		
11	32	85	32	29	32	38	32	33	32	74	32	34		
12	32	30	32	29	32	32	32	34	32	50	32	36		
13	32	25	32	94	32	30	32	35	32	34	32	34		
14	32	75	32	33	32	78	32	34	32	38	32	34		
15	30	44	32	31	32	75	32	34	32	29	32	36		
16	32	32	32	31	32	33	32	29	32	76	32	33		
17	32	32	32	79	32	33	32	35	32	34	32	33		
18	32	31	32	38	32	42	32	30	32	34	32	34		
19	32	33	32	37	32	35	32	28	32	34	32	25		
20	32	36	30	46	32	33	32	30	32	31	32	38		
TOTALS														

646-18 645.70 649.13 646.85 648.12 644.28  
THE PRINT SHOP  
3879.76



October 23- 19 82  
COMPANY Lebe Production  
LEASE \_\_\_\_\_  
WELL NO. 1 - Gulf State 36  
STATE New Mexico  
SIZE 2 3/8 tubing  
THIS PIPE TALLIED BY Pablo Serrano

	IN.		IN.		IN.		IN.		IN.		IN.		IN.	
	WT.		WT.		WT.		WT.		WT.		WT.		WT.	
	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.
1	32	32	32	33	32	32								
2	32	81	32	34	32	33								
3	32	33	32	31	32	33								
4	32	31	32	32	32	39								
5	32	33	32	76	32	32								
6	32	30	32	32	32	36								
7	32	35	32	33	32	33								
8	32	80	30	53	32	30								
9	32	35	32	36	32	30	20 Ft in top Cement							
10	32	33	32	38	30	48								
11	32	35	29	90	32	30								
12	32	35	32	33	32	35	if Ft out to 20' bottom							
13	32	30	32	31	32	36								
14	32	38	32	71	418	42								
15	32	36	32	40										
16	32	33	32	33										
17	32	32	32	35										
18	32	35	30	34										
19	32	34	32	77										
20	32	80	32	33										
TOTALS														

64811  
THE PRINT SHOP

641.65

total tally 5587.94

# SIMMONS ENGINEERING & CONSULTING CO.

5704 VILLA VIEW DRIVE

FARMINGTON, NEW MEXICO 87401

PHONE (505) 326-2510 • RADIO CONTACT (505) 325-1873

## CASING AND TUBING SUMMARY

Date October 30, 1982

Operator LOBO Production Lease Gulf-State Well NO. 1-36  
 State New Mexico County Sandoval Total Depth 5605  
~~Casing~~ Tubing, Size O.D. 2-3/8, Weight 4.7 lb./ft., Type CW55  
 Threads EUE 8rd Hole Size 4 1/2 Cement NA  
 \_\_\_\_\_ Top of Cement \_\_\_\_\_  
 Plug Down, Time \_\_\_\_\_ Date \_\_\_\_\_ K.B. above G.L. \_\_\_\_\_

	<u>Joints</u>	<u>Footage</u>
Delivered to location (Footage, Thds. off)	<u>173</u>	<u>5587.94</u>
Amount run	<u>169</u>	<u>5460.45</u>
Guide shoe (____), Float Collar(____), Perf. Sub ( <u>3.00</u> ), SN ( <u>1.00</u> ) plus		<u>4.00</u>
Amount Cut Off less		<u>-</u>
Total Amount Run (Footage THds off)	<u>169</u>	<u>5464.45</u>
K. B. to top of casing or tubing plus		<u>-</u>
Depth Landed		<u>5464.45</u>
Amount not Run(Footage Thds off)	<u>4</u>	<u>127.49</u>
Amount Cut off plus		<u>-</u>
Total Amount Not Run	<u>4</u>	<u>127.49</u>

Remarks: Ran bull plug, 1 joint, 3' perforated sub, SN and  
168 joints.

R.D. Simmons



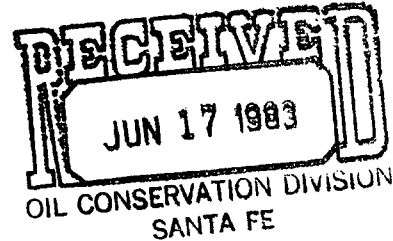
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
• (505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE June 14, 1983

RE: Proposed MC \_\_\_\_\_  
Proposed DHC ✓ \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



Gentlemen:

I have examined the application dated June 8, 1983  
for the Zobo Production Only State 36 #1 A-36-23N-6W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve pending pressure and rate test of M.V.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Frank J. Clary