					Ctrohausk
6/23/0	6 SUSPENSE	MITHE STOGNER ENGNEER	LOGGEDIN 7/3/06	TYPE S)	APP NO. PTD SOL 18440964
		ABOVE	THIS LINE FOR DIVISION USE ONLY	1	
		MEXICO OIL CON - Engineerin 220 South St. Francis Di	ng Bureau -	(3)	PM 3 20
	ADM	MINISTRATIVE	APPLICATI	ON CHEC	KLIST
THIS CHEC		ORY FOR ALL ADMINISTRATIV WHICH REQUIRE PROCES			VISION RULES AND REGULATIONS E
[NSL	Non-Standard	Location] [NSP-Non-Si Commingling] [CTB-J			-

[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication [NSL] NSP SD

[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]

Check One Only for [B] or [C]

[1]

- [B]
 Commingling Storage Measurement

 DHC
 CTB
 PLC
 PC
 OLS
 OLM
- [C]
 Injection Disposal Pressure Increase Enhanced Oil Recovery

 WFX
 PMX
 SWD
 IPI
 EOR
 PPR
- [D] Other: Specify_____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners

- [B] Contraction of Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Title 6-23-06 Date Omunolsanjaho Handhart. com Print or Type Name



Ocean Munds-Dry omundsdry@hollandhart.com

June 23, 2006

HAND-DELIVERED

Mark E. Fesmire, P.E. Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

> Re: Application of Petrohawk Operating Company for administrative approval of an infill gas well and simultaneous dedication of the State "A" A/C 3 Well No. 6, 1980' FSL and 2310' FEL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

Dear Mr. Fesmire:

Pursuant to the provisions of Rule 4(B) of the Special Pool Rules for the Jalmat Gas Pool, as promulgated by Division Order No. R-8170-P dated December 14, 2001, Petrohawk Operating Company ("Petrohawk") hereby seeks an administrative exception to the gas well density provisions of Rule 3(C) and authorization to simultaneously dedicate said wells to the 320-acre spacing and proration unit originally approved by Order No. R-9073, dated December 14, 1989.

Petrohawk seeks approval of the following well in Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico:

The State "A" A/C 3 Well No. 6 to be re-entered and re-completed at a standard location 1980 feet from the South line and 2310 feet from the East line (Unit J).

The proposed well would be drilled within an existing 320-acre gas spacing unit comprised of the E/2 of Section 10. Therefore, Petrohawk also seeks approval to simultaneously dedicate this well to this spacing unit.

Division Order 9073 authorized the following two wells to said spacing unit for the Jalmat Gas Pool:

Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. 🙃



State "A" A/C 3 Com "A" Well No. 1 (API No. 30-025-09299) located 990 feet from the North line and East lines (Unit A); and

State "A" A/C 3 Com "A" Well No. 2 (API No. 30-025-09289) located 1650 feet from the South line and 990 feet from the East line (Unit I).

Administrative Order NSL-2873, dated September 1990, the State "A" A/C 3 Com "A" Well No. 8 (API No. 30-025-20245) located at an unorthodox well location 660 feet from the South and East lines (Unit P) was also approved.

Administrative Order NSL-2873-A, dated January 18, 1991, authorized the simultaneous dedication of the following three wells:

State "A" A/C 3 Com "A" Well No. 4 (API No. 30-025-09300) located 660 feet from the North line and 2310 feet from the East line (Unit B);

State "A" A/C 3 Com "A" Well No. 5 (API No. 30-025-09303) located 1980 feet from the North line and 2310 feet from the East line (Unit G); and

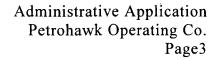
State "A" A/C 3 Well No. 6 (API No. 30-025-09302) located 1980 feet from the South line and 2310 feet from the West line (Unit J). This well, however, was plugged and abandoned in 1994 and was omitted from the spacing unit.

Administrative Order NSL-2873-B(SD), dated July 24, 2000, authorized the unorthodox well location and simultaneous dedication of the following well to the spacing and proration unit for the Jalmat Gas Pool:

The State A A\C 3 Well No. 14 (API No. 30-025-34682) located 660 feet from the South line and 1980 feet from the East line (Unit O).

The proposed well is necessary to facilitate the recovery of Jalmat gas reserves. Based on the geological discontinuity in the Jalmat the tighter spacing is anticipated to recover reserves, which cannot be recovered from existing wells. The well will be completed with modern completion and fracture stimulation techniques which will ensure optimal recovery from the discontinuous Yates/Seven Rivers sands. **Exhibit 1** is a Base Map showing recent Jalmat activity and the proposed well locations in Section 10. a Top of Structure Map which shows the proposed well locations in Section 10. **Exhibit 2** is a Top of Structure Map with Petrohawk's acreage position in Section 10 outlined.

Exhibits 3 through 7 are cross-sections showing the Yates and Seven Rivers sands vary substantially from well to well in thickness and reservoir quality. Given the variability of the sands, net pay isopach maps have not proven to be useful and are not included. Detailed correlations with newer generation Density-Neutron logs in the Yates and Seven Rivers interval reveal the sands "come and go" and are not blanket





reservoirs. Sands that have not adequately produced in the area are expected in each new well bore.

Jalmat producers have been down-spaced on the Petrohawk acreage from 160 acres to 80 acres to 40-acre spacing in several phases since 1989. New gas production and reserves have always been encountered from these efforts, as shown on **Exhibit 8**. Petrohawk concludes that this area of Jalmat Field has such discontinuous sand reservoirs that infill drilling on 40-acre spacing is required to adequately drain the existing reserves.

The work of Raptor Resources, Inc. ("Raptor"), Mission Resources Corporation ("Mission") and Petrohawk was reviewed from April of 1999 through 2005. All of the new drills and re-completions (32) in Township 22 South, Range 36 East were studied to develop a type curve for the area. The monthly production data for each of these completions was normalized. The data was then averaged to produced a normalized production curve as shown on **Exhibit 9.** Detailed information for all the Mission/Petrohawk completion since Mission took over as operator in March 2004 are listed on **Exhibit 10.** The first month average initial rate for these projects is 149 mcfd. Anticipated reserves per location were determined by using the average initial rate with the decline scenario developed from the type curve. The result of this analysis yields an Estimated Ultimate Recovery of 704 MMCFG.

Economic analysis was performed based on the average initial rates realized (See Exhibit 10) in the Mission/Petrohawk wells completed and using a normalized type curve (See Exhibit 9) designed by studying all completions from 1999 through 2005 on the Petrohawk acreage for the decline rate and hyperbolic exponent. Exhibit 12 lists the details of the input and the results of the economics. The gas is extremely rich with an NGL yield of 136 bbls/mmcf. The processing plant takes 13% of the residue gas and NGL's. Gas shrinkage was based on plant statements. The gas price used in the analysis was \$6.00/mcf flat. No condensate was included in the run. The NGL price was 71% of the oil price (\$60/stb) and thus was \$42.60/bbl flat. This percentage was determine by comparing the actual prices received to NYMEX oil prices. The operating cost is the average per producing well cost in the field. Our operations group provided the CWC for both new drills and re-completes. The results of the analysis show a EUR of 704 MMCF. The new drill wells have an NPV @ 10% - 821 M\$, Rate of Return = 36%, payout in 40 months, and a return on investment ratio of 6.1. The re-completes have an NPV @ 10% = 1,039 M\$, Rate of Return = 65%, payout in 26 months, and a return on investment ratio of 9.3. In summary, either drilling or re-completing wells on 40-acres with the discontinuous nature of the sands is extremely economic.

Exhibit 11 is the completion data and estimated EUR for the 40-acre locations around the proposed wells. In Unit Letter J of Section 10, the surrounding 40-acre wells have produced 6,203 MMCF and will make another 454 MMCF. The mechanical condition of Well No. 6 should allow re-entry of this plugged wellbore.



Many of the older wells had only small or no frac treatment and were not perforated or treated in a way to adequately contact every gas-bearing sand. In many cases, the Seven Rivers gas zones were not perforated at all. Petrohawk is using a combination of limited entry perforating and pumping much larger frac jobs (300K#) to ensure that the entire Jalmat interval is stimulated. The designed fracture half length is approximately 300 feet. Careful engineering of the frac job can then assure all potential sands are effectively drained.

Approval of this application will result in the efficient recovery of hydrocarbons, prevent waste and will not violate correlative rights.

Exhibit 13 lists the parties affected by this application as defined by Rule 1210. **Exhibit 14** is a map displaying the offset operators around the spacing unit in Section 22.**Exhibit 15** is an affidavit confirming that notice of this application has been provided in accordance with the provisions of Rule 4(D) and Rule 1210(B) by providing a copy of this application, including all attachments, to the affected parties by certified mail-return receipt requested advising them that if they have an objection to this application it must be filed in writing with the Division's Santa Fe office within twenty (20) days after the filing of this application and proof of notice with the Division.

Exhibit 16 is OCD Form C-102 depicting the proposed surface locations of the referenced wells.

Also enclosed is a proposed administrative order of the Division.

Sincerely,

cean Mundy-

Ocean Munds-Dry Attorney for Petrohawk Operating Company

Enclosures



Ocean Munds-Dry Associate omundsdry@hollandhart.com

June 23, 2006

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

Re: Application of Petrohawk Operating Co. for administrative approval of infill gas wells and simultaneous dedication of the State "A" A/C 3 Well No. 6, 1980' FSL and 2310' FEL, S10-T23S-R36E, Jalmat Gas Pool, Lea County, New Mexico.

Dear Ladies and Gentlemen:

Enclosed is a copy of the above-referenced application which was filed with the New Mexico Oil Conservation Division on this date by Petrohawk Operating Company for administrative approval of infill gas wells and simultaneous dedication for its State "A" A/C 3 Well No. 6, 1980 feet from the South line and 2310 feet from the East line, Section 10, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico.

Petrohawk seeks to dedicate this well to an existing 320-acre gas spacing unit comprising the E/2 of Section 10 which is currently dedicated to the State "A" A/C 3 Com "A" Well No. 1 (Unit A); State "A" A/C 3 Com "A" Well No. 2 (Unit I); the State "A" A/C 3 Com "A" Well No. 8 (Unit P); State "A" A/C 3 Com "A" Well No. 4 (Unit B); State "A" A/C 3 Com "A" Well No. 5 (Unit G); and the State A A\C 3 Well No. 14 (Unit O).

As an owner of an interest that may be affected by these proposed wells, you may object to this application. Objections must be filed in writing within twenty days from this date at the Division's Santa Fe office that is located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. If no objection is received within this twenty-day period, this application may be approved.

ean Munds-Drv

Attorney for Petrohawk Operating Co.

Enclosures

Holland & Hart LLP Phone [505] 988-4421 Fax [505] 983-6043 www.hollandhart.com 110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208 Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. 🙃

Administrative Application Petrohawk Operating Co. Page5

EXHIBIT 13

Affected Parties

State A A/C 3 Well No. 6 Section 10, Township 23 South, Range 36 East, NMPM Lea County, New Mexico.

Plantation Operating LLC 2203 Timberwolf Suite 229 The Woodlands, TX 77380

1

COG Operating LLC 550 W. Texas Suite 1300 Midland, TX 79701

Clayton Williams Six Desta Dr. Suite 3000 Midland, TX 79705

EXHIBIT 15

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

IN THE MATTER OF THE APPLICATION OF PETROHAWK OPERATING COMPANY FOR ADMINISTRATIVE APPROVAL OF AN INFILL GAS WELL AND SIMULTANEOUS DEDICATION OF STATE "A" A/C 3 WELL NO. 6, 1980' FSL AND 2310' FEL, S10-T23S-R36E, JALMAT GAS POOL, LEA COUNTY, NEW MEXICO.

AFFIDAVIT

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

Ocean Munds-Dry, attorney in fact and authorized representative of Petrohawk Operating Company, the Applicant herein, being first duly sworn, upon oath, states that notice of the above-referenced Application was mailed to the addresses shown on Exhibit "13" attached hereto.

Cean Munds-Drv

SUBSCRIBED AND SWORN to before me this 23 day of June 2006 by Ocean Munds-Dry. OFFICIAL SEAL LISAMARIE ORTIZ NOTARY PUBLIC-STAT Notary Public My commission expire My Commission Expires:

Attention: Ms. Nancy Gatti

Administrative Order -____

Dear Ms. Gatti:

Reference is made to your application dated June 23, 2006 for an infill gas well and simultaneous dedication for its State "A" A/C 3 Well No. 6, 1980 feet from the South line and 2310 feet from the East line, Section 10, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico.

The proposed wells will be simultaneously dedicated to an existing 320-acre gas spacing unit comprising Section 10 which is currently dedicated to the State "A" A/C 3 Com "A" Well No. 1 (Unit A); State "A" A/C 3 Com "A" Well No. 2 (Unit I); the State "A" A/C 3 Com "A" Well No. 3 (Unit P); State "A" A/C 3 Com "A" Well No. 4 (Unit B); State "A" A/C 3 Com "A" Well No. 5 (Unit G); and the State A A/C 3 Well No. 14 (Unit O).

This application has been duly filed under the provisions of the "Special Pool Rules for the Jalmat Gas Pool," as promulgated by Division Order No. R-8170-P, issued in Case No. 12563 on December 14, 2001.

By authority granted me under the provisions of Rules 4(A), (B), and (D) of the special rules governing the Jalmat Gas Pool, the following described wells within this 600-acre spacing unit is hereby approved:

The State "A" A/C 3 Well No. 6, to be re-entered and re-completed 1980 feet from the South line and 2310 feet from the East line (Unit J).

Further, Petrohawk is hereby authorized to simultaneously dedicate Jalmat gas production from the above-described wells.

Sincerely,

Mark E. Fesmire, P.E. Director

cc: Oil Conservation Division - Hobbs/Artesia

DISTRICT II 1301 W. Grand Avenu	ie, Artesia, I	NM 86210					N DIVISION rances Dr.		State Lease Fee Lease	— 4 Copies — 3 Copies
DISTRICT III 1000 Rio Brazos Rd.,	Aztec, NM	87410					87505			
<u>DISTRICT IV</u> 1220 S. St. Francis I	Dr., Santa F	e, NM 8750	5						🗆 AMENDED	REPORT
		-	WELL LOC	ATION	AND A	CREA	GE DEDICATIO	N PLAT		
	lumber		70240	Pool Code				Pool Name		
30-025-0 Property Co		1	79240)	Prop	JA erty Nan	LMAT; TANS	LL-YATES-	7 RIVERS	(GAS)
33493	Jue				-	EAA			006	
OGRID No.						ator Nam			Elevatio	
148381				PETRO	HAWK	OPER	ATING COMPA	ANY	3435	
					Surfac	e Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
J	10	23 S	36 E		198	0	SOUTH	2310	EAST	LEA
L		<u> </u>	Bottom	Hole Loo	cation I	f Diffe	rent From Sur	face	<u> </u>	· · · · · · · · · · · · · · · · · · ·
UL or lot No. SAME	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill	Consolidation	Code Or	der No.		·	~ <u></u>		
640	INFI	LL								
NO ALLOWAB	LE WILL						IL ALL INTEREST PROVED BY THE		CONSOLIDATE	DORA
		· · · · · · · · · · · · · · · · · · ·		0801			0'	I hereby certify the the inj the best of my innukedge of working interest or unlease a contract with an owner voluntary pooling agreement the division. Signature NANCY K. Printed Name REGULATIO SURVEYO I hereby certify on this plat was actual surveys supervison and correct to the Date of Survey	DRY MANAGE DR CERTIFICAT that the well location s plotted from field made by me or that the same is best of my belief.	e and complete to tion rither own a dring the proposed cation pursuant to interest, or to a relofore entered by
	 l					 [Certificate No.		

1625 N. French Dr., Hobbs, NM 88240

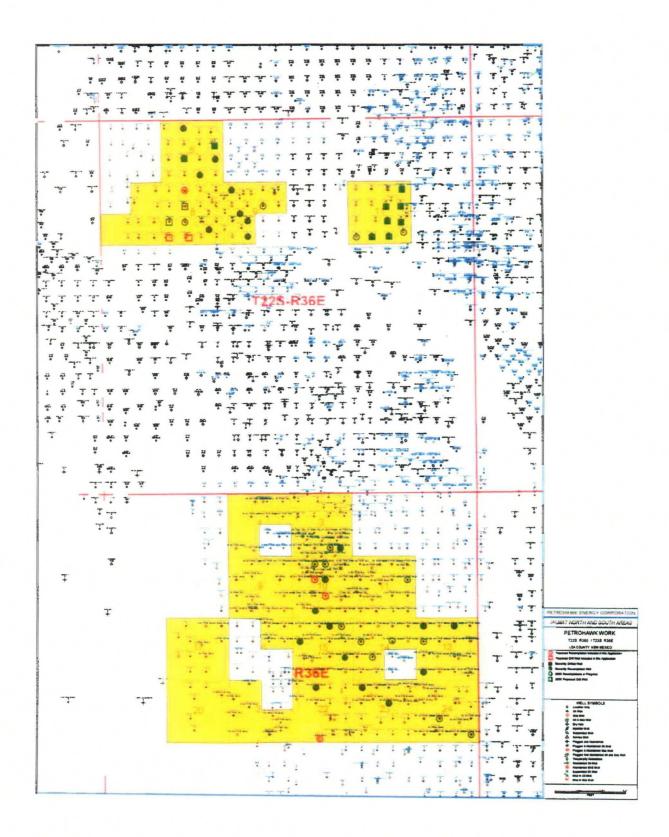
•

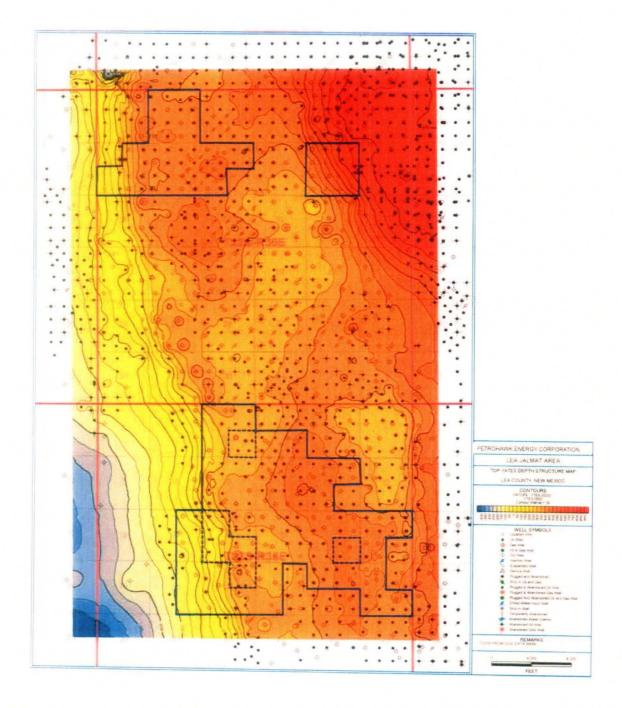
.

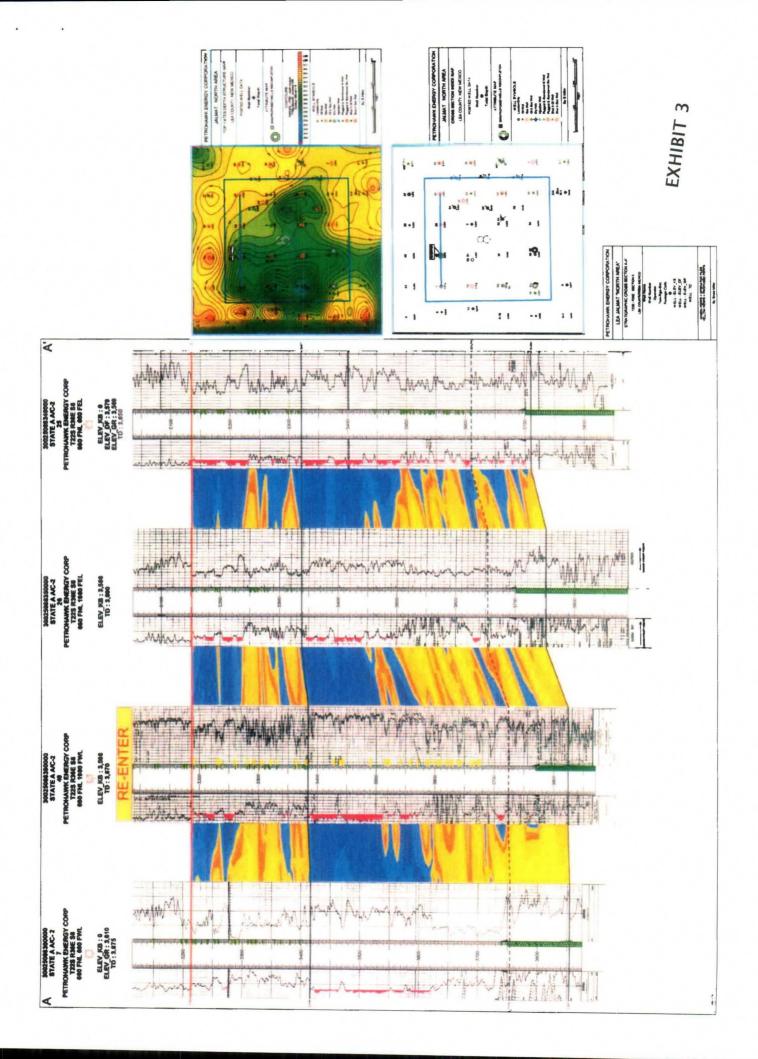
DISTRICT I

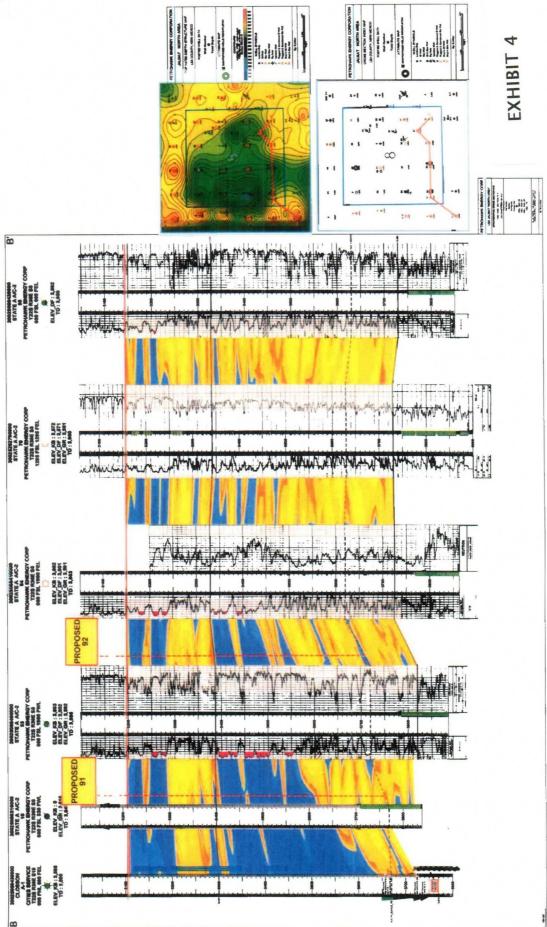
Form C-102 Revised_October_12_2005 Submit to Appropriate District Office State Lease - 4 Copies

State of New Mexico Energy, Minerals & Natural Resources Department

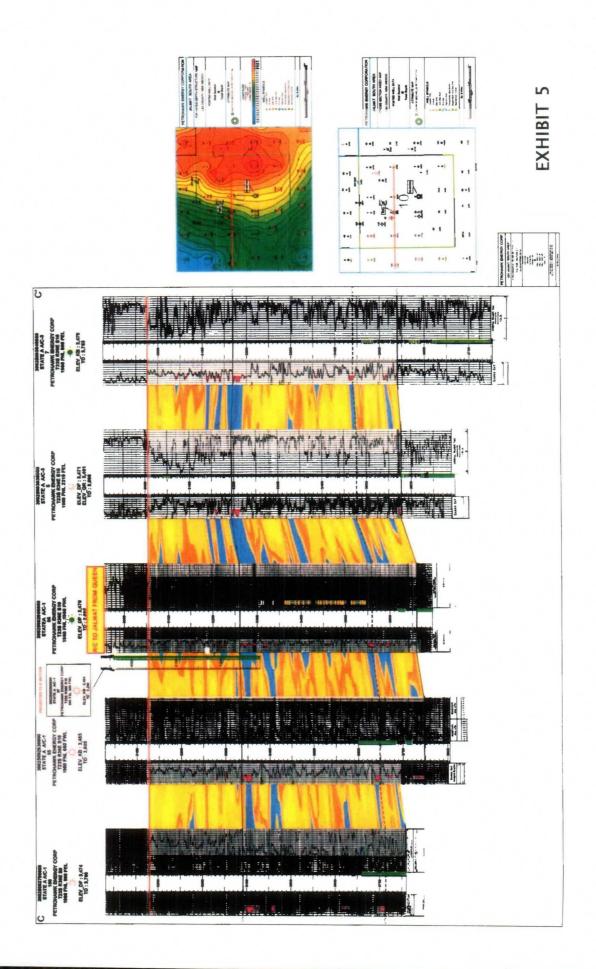




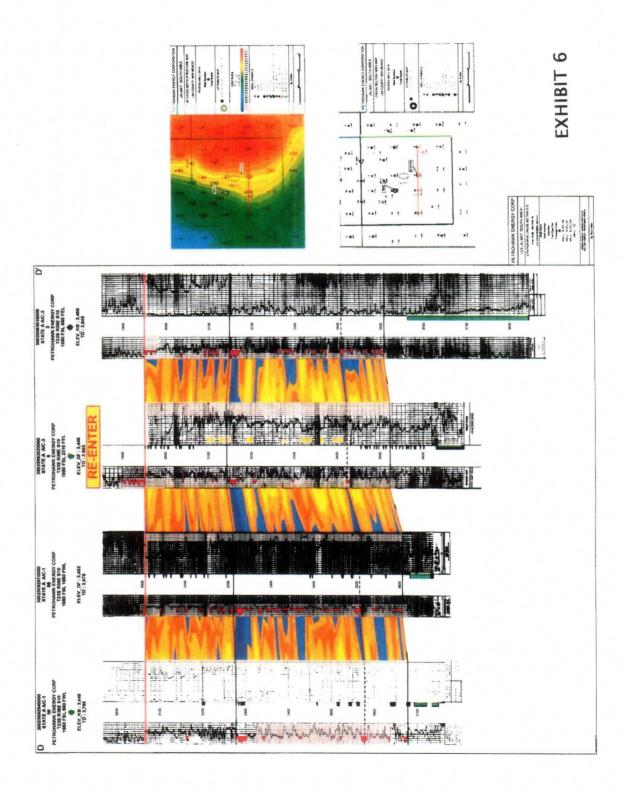


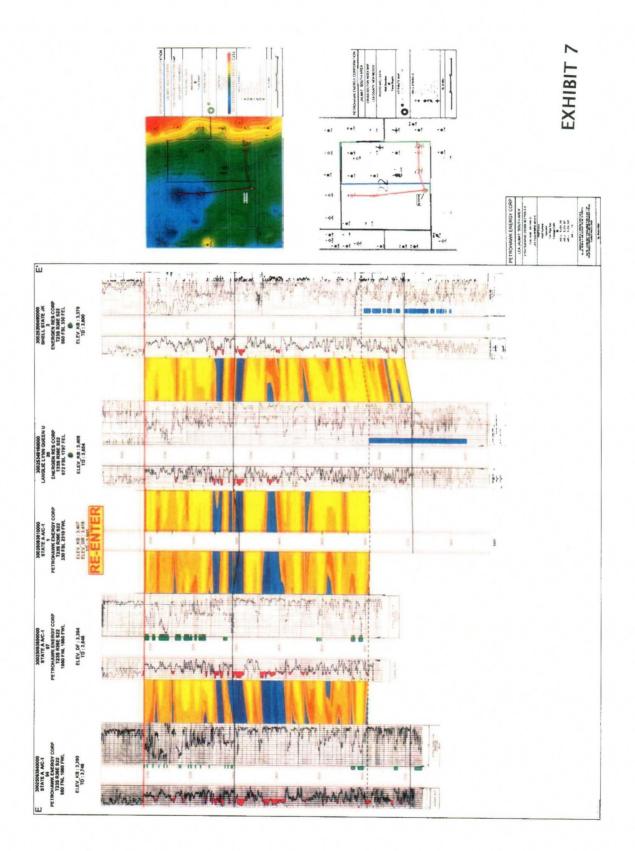


T



S

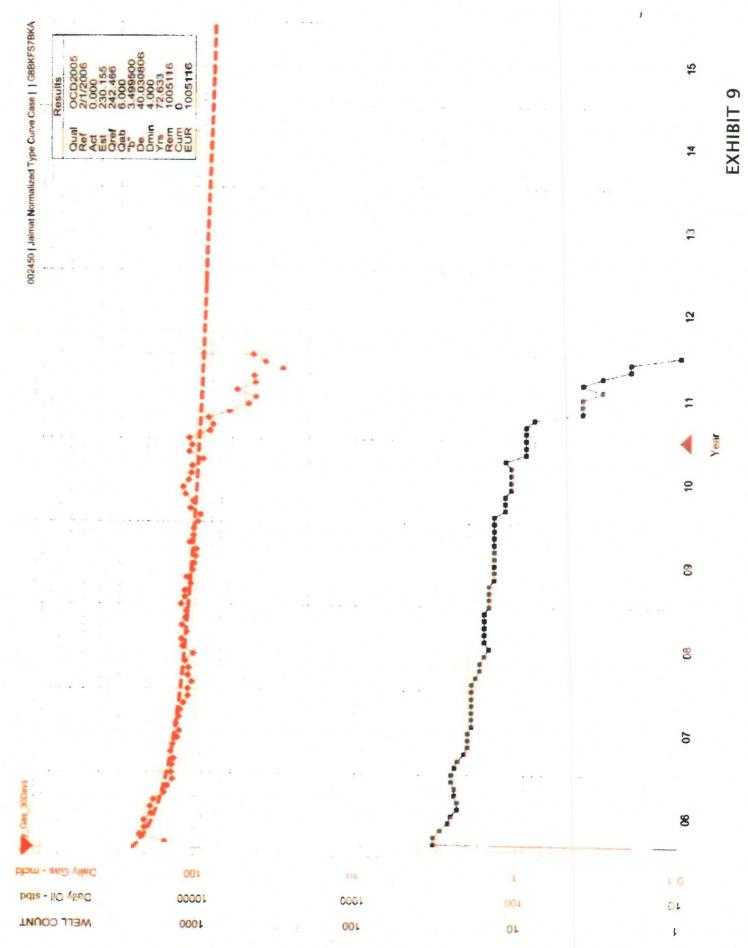




Petrohawk Leases Jalmat Field Lea County, New Mexico

100,000 10,000 1,000 100 Jan-05 Jan-00 Jan-95 Jan-90 Jan-85 Jan-80 Gas Rate -Oil Rate Jan-75 1,000 Jan-70 100,000 1,000,000 10,000 Monthly Gas, MCF/M

Monthly Oil Rate, BOPM



Jalmat Field - New Compls since Mission / Petrohawk became operator in 3/2004

٠	E.	
-		
Э		
=		
u		
2		
7		
-		
-		
-		
-		
-	1	
	1	
υ		
	1	
14		
ø		
•		
-	•	
٦.		
-		
D		
-		
-		
1		
0		
14		
v		
-		
-		
-		
Ξ.		
-		
ζ		
2		
NPIL		
MINIO		
Oliaw		
I U II d W		
LI UII d W		
ellonaw		
Mellona		
Mellonal		
Leuonaw		
Leuonaw		
/ Leuonaw		
I / Leuonaw		
Mellonal III		
UII / Leuonaw		
Venonal Inolian		
Venonal / nois		
SIOIN / LEUGINAM		
ASION / LEUGISM		
Applicational Includes		
IISSION / LEUOISSI		
MISSION / LEUGIAW		
INISSION / LEUOISSIN		
MISSION / LEUOISSIN		
CINISSION / LEUOISM		
A MISSION / LEUOISSIN D		
CC MISSION / Leftonaw		
ICC MISSION / LCRONAM		
Mellonal / Hoissin and		
MILCE MISSION / LEUCIDAM		
SILICE MISSION / LEUOISM		

Wtr	(stbd)	2	0	2	9	0	0	-	0	0	35	36	0	1	0	9	0	0	0	85	4	0	0	0		0	frac	0	25
Gas	(mefd)	34	81	39	172	94	158	205	305	176	8	132	68	324	162	266	119	137	10	223	247	136	70	100	WO Compl	243	Cleaning up after frac	316	0
Oil	(stbd)	0	0	0	0	0	0	0	0	0	0	1	0	-	0	1	0	28	0	0	2	0	0	0		0	Clea	0	0
	Prod Zone Name	TANSILL-YATES-SEVEN RIVERS																											
	First Prod Date	2005/03	2005/03	2005/03	2005/02	2005/04	2005/03	2005/01	2005/01	2005/04	2005/03	2005/01	2005/03	2004/06	2005/05	2004/05	2004/07	2005/04	2005/03	2004/08	2004/04	2005/05	2005/05	2005/04	WO Compl	2006/04	2006/05	2006/04	2005/03
	Status	Producing	Shut In	Producing	WO Compl	Producing	WO Compl	Producing	Shut In																				
	Field Name	JALMAT																											
	Oil or Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Oil	Gas	Gas	Gas	lio	Gas										
	Type	Add pay & Frac	New Drill	Add pay & Frac																									
	API	30-025-10720	30-025-09344	30-025-10725	30-025-09394	30-025-09346	30-025-09229	30-025-09347	30-025-10723	30-025-09397	30-025-09298	30-025-09384	30-025-08849	30-025-08792	30-025-08854	30-025-08793	30-025-08847	30-025-08798	30-025-28276	30-025-28279	30-025-35868	30-025-36936	30-025-36910	30-025-36935	30-025-37563	30-025-37564	30-025-37565	30-025-37566	30-025-09303
	Location	151 23S 36E	13B 23S 36E	15E 23S 36E	23D 23S 36E	13D 23S 36E	3P 23S 36E	13M 23S 36E	15B 23S 36E	23G 23S 36E	10N 23S 36E	22C 23S 36E	9N 22S 36E	5I 22S 36E	9D 22S 36E	50 22S 36E	9K 22S 36E	5C 22S 36E	9K 22S 36E	8P 22S 36E	5K 22S 36E	11J 22S 36E	11N 22S 36E	110 22S 36E	11A 22S 36E	11G 22S 36E	11H 22S 36E	111 22S 36E	10G 23S 36E
	Well	2	57	59	65	66	69	11	82	84	88	94	-	28	29	33	38	47	67	70	81	82	83	84	85	86	87	88	5
	Lease Name	MATKINS	STATE A A C 1	STATE A A C 2	STATE A A C 3	STATE A A C 2	STATE A A C 3																						

EXHIBIT 10

149

Avg Initial Rate:

SECTION: 10 SPOT:J JALMAT FIELD, LEA CO, NM	LEA CO,	L:TO		T23S R36E					
Well #	Sec/spot	Sec/spot Comp date	Zones	Pay interval	Treatment	Cum MMCF	Cur rate MCFD	Status	EUR EUR
40-4016 0119619, 360 10.	.01 Dac								
AAC1 #86	10F	Apr-60	Queen	3660-3696	10 K# SD	0	0	T&A 12/93	0
			7R	Proposed Recompletion	L	0	0		704
ACC3 #5	10G	May-60	Queen	3502-3698	10K# SD	0	0	T & A 9/90	0
		Sep-90	Y-7R	3024-3457	74 K# SD	78	0	SI	78
		Mar-05	Y-7R	2941-3326	282 K# SD	0	0	SI	0
ACC3 #7	10H	Sep-62	Queen	3466-3731	45K# SD	0	0	S	0
ACC3 #2	101	Jul-53	Y-7R	2847-3170	Natural	5313	57	Active	5767
ACC3 #3	101	May-59	Queen	3653-77	10K# SD	0	0	T&A 6/92	0
ACC3 #6	101	Aug-60	Queen	3456-3602	40K# SD	0	0	P&A 12/94	0
		Oct-90	×	2954-3065	219K# SD	0	0	P&A 12/94	0
			7R	To be re-entered		0	0		704
ACC1 #88	10K	May-60	Queen	3625-78	10K# SD	0	0	T&A 3/89	0
		Mar-89	Y-7R	3016-3568	156 K# SD	0	0	SI	0
Gazelle #1	10K	Mar-98	Abo	None	None	0	0	P&A 8/98	0
ACC1 #89	10N	Jun-60	Queen	3655-85	10K# SD	0	0	T & A 11/89	0
		Nov-89	Y-7R	2885-3150	135 K# SD	448	0	SI	448
		Jan-05	Y-7R	3208-3510	301 K# SD	1	0	SI	-
ACC3 #8	10P	Feb-64	Queen	3452-3673	40K# SD	0	0	T & A 12/89	0
		Dec-89	Y-7R	2957-3056	120 K# SD	363	0	SI	363

Jalmat - New Drill & Recomplete - Economics Summary Table

Input:

		(from avg of Mission/Petrohawk activity)	(from normalized type curve)	(from normalized type curve)	(from plant statements)	(from plant statements)	(contract with plant)		(no oil in economics)	(71% of Oil)	(actuals from los statement)	CWC = 425 M\$ (Recomplete)	
WI = 100 % RI = 82.5%	Prod Start Date = Drill Date + 1 mth	Initial Rate = 149 mcfd + 0 bopd	di = 40%	n = 3.5	NGL Yield = 136 bbls/mmcf	1-Gas Shrinkage = 59%	Plant Takes \approx 13% of residue gas & ngis	Gas Price = \$6.00/mcf flat	Oil Price = \$60/stb flat	NGL Price = \$42.60/stb flat	OP Cost = \$1264/well/mth	CWC = 650 M\$ (New Drill) CWC = 425 M\$	

Results:

Recompl	704 MMCFG	1039 M\$	65%	26 mths	9.3
New Drift	704 MMCFG	821 M\$	36%	40 mths	6.1
	8/8ths Reserves:	NPV @ 10%:	ROR:	Payout:	ROI:

Administrative Application Petrohawk Operating Co. Page5

EXHIBIT 13

Affected Parties

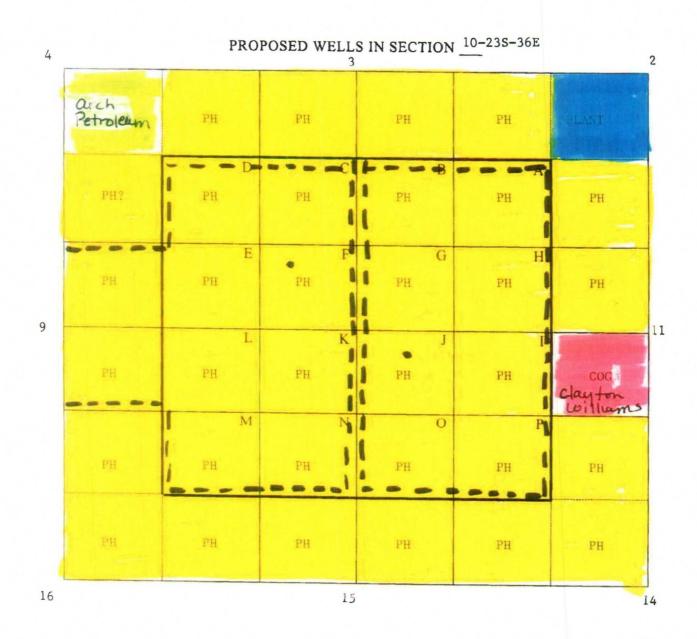
State A A/C 3 Well No. 6 Section 10, Township 23 South, Range 36 East, NMPM Lea County, New Mexico.

Plantation Operating LLC 2203 Timberwolf Suite 229 The Woodlands, TX 77380

з **ж**

COG Operating LLC 550 W. Texas Suite 1300 Midland, TX 79701

Clayton Williams Six Desta Dr. Suite 3000 Midland, TX 79705



PH = Petrohawk PLANT = Plantation

s .

EXHIBIT 15

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

IN THE MATTER OF THE APPLICATION OF PETROHAWK OPERATING COMPANY FOR ADMINISTRATIVE APPROVAL OF AN INFILL GAS WELL AND SIMULTANEOUS DEDICATION OF STATE "A" A/C 3 WELL NO. 6, 1980' FSL AND 2310' FEL, S10-T23S-R36E, JALMAT GAS POOL, LEA COUNTY, NEW MEXICO.

AFFIDAVIT

STATE OF NEW MEXICO) ss. COUNTY OF SANTA FE

Ocean Munds-Dry, attorney in fact and authorized representative of Petrohawk Operating Company, the Applicant herein, being first duly sworn, upon oath, states that notice of the above-referenced Application was mailed to the addresses shown on Exhibit "13" attached hereto.

an Munds-Dr

SUBSCRIBED AND SWORN to before me this 23 day of June 2006 by Ocean Munds-Dry. OFFICIAL SEAL LISAMARIE ORTIZ ARY PUBLIC-STATE O Notary Public My commission emit My Commission Expires:

	Hobbs, NM	88240					Mexico sources Departme			Revised_Octobe	
DISTRICT_D			17				N DIVISION		Submit	to Appropriate Dis State Lease Fee Lease	- 4 Copies
1301 W. Grand Avenu	ue, Artesia,	NM 88210		1220	South	St. F	rances Dr.			ree Lease	- a copie
D <u>ISTRICT III</u> 1000 Rio Brazos Rd.,	, Aziec, NM	87410		Sa	inta Fe	, NM	87505				
DISTRICT IV										□ AMENDED	REPORT
220 S. St. Francis	Dr., Santa F	'e, NM 87505									
		¥	VELL LOC	ATION	AND A	CREA	GE DEDICAT	[ION			
API 1 30-025-0	Number		79240	Pool Code		тλ	T M እ ጥ • ጥ እ እ	0.7.7	Pool Name		(
Property C			15240		Prop	erty Nam	LMAT; TAN	1211	L-IAIES-	7 RIVERS Well Num	
33493		L			STATE	E A A	/C3			006	5
0GRID No				ספיני	•	ator Nam	-		.,	Elevatio	а
148381		<u> </u>		PETR		e Loca	ATING COM	PAN	<u>Y</u>	3435	
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South lin	ie F	eet from the	East/West line	County
J	10	23 S	36 E		198		SOUTH		2310	EAST	LEA
		L	Bottom	Hole L	cation I	f Diffe	rent From S	urfac		I	L
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South lin		'eet from the	East/West line	County
SAME											
Dedicated Acres	Joint or	r Infill	Consolidation	Code 0	rder No.		L	-			
640	INFI	LL									
		660'FAL-	2310 456				St-te "A"	- 4, 09249 12	I hereby certify the the in the best of my knowledge working interest or unlease	OR CERTIFICA' formation contained herein is true and being, and that this organized of maneral interestin the land inclu	e and complete to ion rither owns o wing the proposed
320-p112 320-sha		6411 30-025-0 660'PAL- NSL-28 State "A" Losti 30-025-0 1980'FAL	No. 4 19300 2310 'FFC 73-A A/C-3 (om. 9 No. 6 19303 - 2310 'FAL	~~ ¥			(Com. A 30-025-0	- 4, 09249 12	I hereby certify the the in the best of my knowledge working interest or unlease bottom hale location or has a contract with an owner	formation contained Aeron is true and belief, and that this organized a maneral interestin the land inclu a right to drill this well at this to of such a mineral or working t or a computery pooling order her a computery pooling order her <u>Date</u> GATTI	and complete to ion rither owns a iding the proposed cation pursuant to interest, or to a
320-R(12 320-R(12 Non-Star Jalmar ba	 	6011 30-026-0 660'911- NSL- 28 State "A" Looll 70-025-0 1980'421 NSL- 297:	No. 4 19300 2310 'FFC 73-A A/C-3 (om. 9 No. 6 19303 - 2310 'FAL	× *			(Com. A 30-025-0 990 'KNN	- 4, 09249 12	I hereby certify the the in the best of my knowledge working interest or unlease below the teacher or has been able teacher or has used and the teacher or has used and the teacher of has been able to the teacher when the divinsion. Signature NANCY K. Printed Name REGULATO	formation contained Aeron is true and being, and that this organized is marrent interestin the land inclu or of such a mineral or working to a computery pooling order her Date GATTI CORY MANAGE	e and complete to ion rither owns a dding the proposed action pursuant to interest, or total velofore entered by
320-B(12 320-B(12 Mon-56m Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba Jahnar ba	1 1 3 1 907 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(411 30-045-0 660'FAL- NSL- 28 State "A" Lusti 30-025-0 1980'FAL NSL- 297: 8	No. 4 19300 2310 'FFC 73-A A/C-3 (om. 9 No. 6 19303 - 2310 'FAL	× *		- + - 	Com. A 3D-025- 99D / WM. R-9073 # Com. A 30-025- 16 SPate A 30-025- 16 SP Sol		I hereby certify the the in the best of my knowledge working interest or values boltom hale leadon or has a contract with an ounce value are solved and the boltom walk and the value of survey Signature NANCY K. Printed Name REGULATO SURVEYO I hereby certify on this plat wa actual surveys supervison and correct to the Date of Survey	formation contained herein is true and belief, and that this organized of maneral interestin the land inclu or of such a mineral or working is of such a mineral or working is a computany poling order her Date GATTI CORY MANAGE DR CERTIFICAT that the well location is plotted from field made by me or m is that the same is best of my belief.	e and complete la ion rither owns o ding the proposed coalion pursuant the vision pursuant the vision pursuant the vision of the proposed with the proposed with the proposed of the proposed CR CION on shown notes of under my true and
320-R(ve 320-Shar Mon-Shar Jalmar ba Jalmar ba Jar Jar Jar Jar Jar Jar Jar Jar Jar Ja	1 3 1 3 1 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6411 30-025-0 660'AL- NSL- 28 State "A" 10-025-0 1980'ANL NSL- 287: 8 Subject State "A" 30-025-24 150'ESL-	A/C-3 (× *			Com. A 3D-025- 99D / SW. R-9073 # Com. A 30-025- 16 State A - 9072 - - - - - - - - - - - - - - - - - - -	- 41 - 41 - - 41 - - 41 - - 41 - - 41 - - 41 - - 41 - - -	I hereby certify the the in the best of my knowledge working interest or unlease below between a second or our used of the second or our work of the second or our black of the second of the Signature NANCY K. Printed Name REGULATO SURVEYO I hereby certify on this plat wa actual surveys supervison and forrect to the Date of Survey	formation contained herein is true and belief, and that this organized is married interstin the land inclu- to of such a mineral or working is or a compulsory pooling order her Date GATTI CORY MANAGE OR CERTIFICAT that the well location is plotted from field made by me or m that the same is best of my belief.	e and complete la ion rither owns o ding the proposed coalion pursuant the vision pursuant the vision pursuant the vision of the proposed with the proposed with the proposed of the proposed CR CION on shown notes of under my true and

State of New Mexico

Form C-102

a a a a