

DATE IN 1/3/00	SUSPENSE 1/24/00	ENGINEER DC	LOGGED MV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2603

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

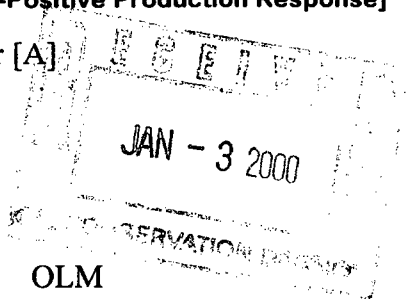
[A] Location - Spacing Unit - Directional Drilling
NSL NSP DD SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

X DHC CTB PLC PC OLS OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] Working, Royalty or Overriding Royalty Interest Owners

[B] Offset Operators, Leaseholders or Surface Owner

[C] Application is One Which Requires Published Legal Notice

[D] X 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

Date

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
Revised August 1999

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas

Operator
Titt

2A

Address
O-35-31N-11W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18519 API NO. 30-045-22914 Federal ☒ State ☐ (and/or) Fee ☒

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Pictured Cliffs - 72359		Blanco Mesaverde- 72319
2. Top and Bottom of Pay Section (Perforations)	2400-2519		4501-4807
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 304 psi (see attachment) b. (Original) 782 psi (see attachment)	a. b.	a. 316 psi (see attachment) b. 760 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1168		BTU 1229
7. Producing or Shut-In?	Shut-In		Producing
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Yes Date: 1/97 Rates: 62 mcf/d	 Date: Rates:	Yes Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		Will be supplied upon completion.

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE J. Z. Dobson TITLE PRODUCTION ENGINEER DATE 12-29-99

TYPE OR PRINT NAME Jennifer Dobson TELEPHONE NO. (505) 326-9700

All distances must be from the outer boundaries of the Section.

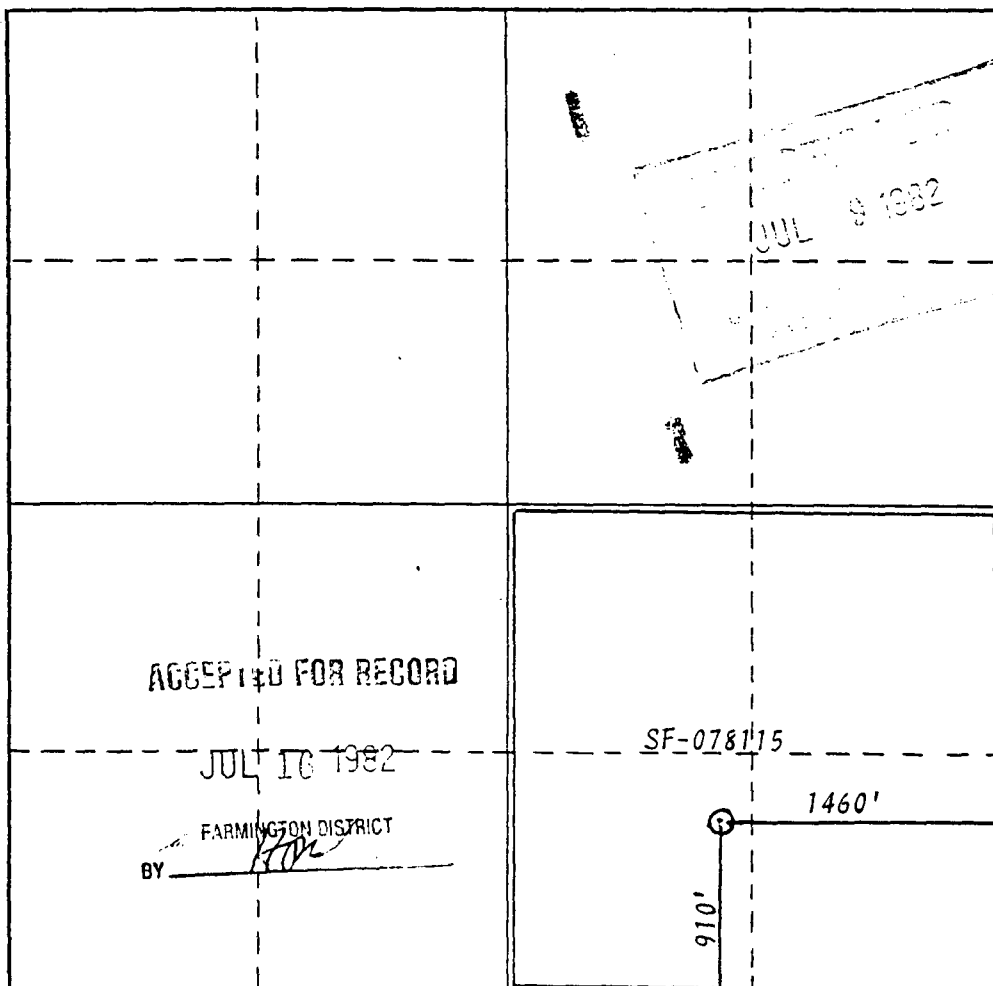
Operator SOUTHLAND ROYALTY COMPANY			Lease F. J. TITT		Well No. 2-A
Unit Letter 0	Section 35	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 910 feet from the South line and 1460 feet from the East line					
Ground Level Elev. 5806'	Producing Formation Pictured Cliffs	Pool Blanco	Dedicated Acreage: 160/320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

C. C. Parsons
 Name
C. C. Parsons
 Position
District Production Manager
 Company
Southland Royalty Company
 Date
July 6, 1982

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
 Registered Professional Engineer and/or Land Surveyor

Certificate No.

OPERATOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Supersedes C-128
Effective 1-1-55

All distances must be from the outer boundaries of the Section.

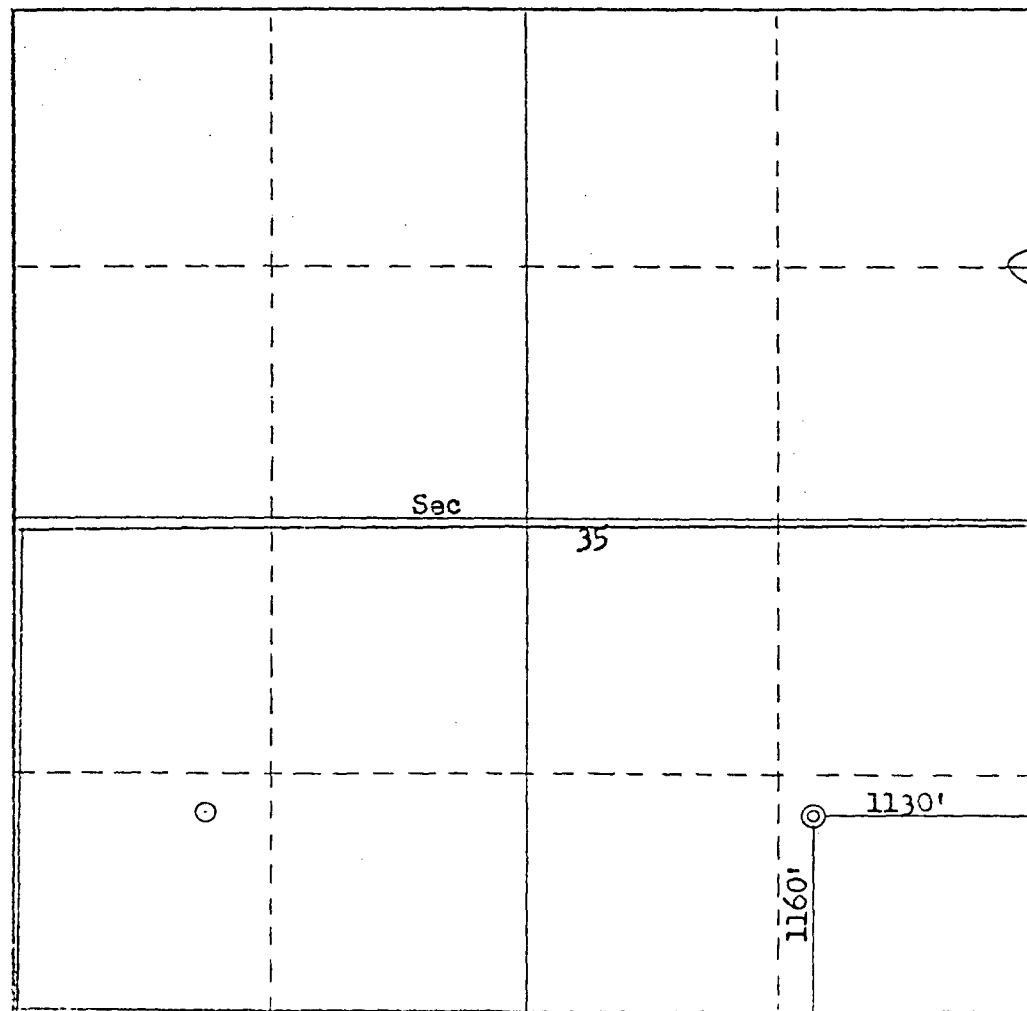
Operator SOUTHLAND ROYALTY COMPANY			Lease F. J. Titt		Well No. 2A
Unit Letter P	Section 35	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 1060 feet from the South line and 1130 feet from the East line					
Ground Level Elev. 5824	Producing Formation Mesa Verde	Pool Blanco		Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

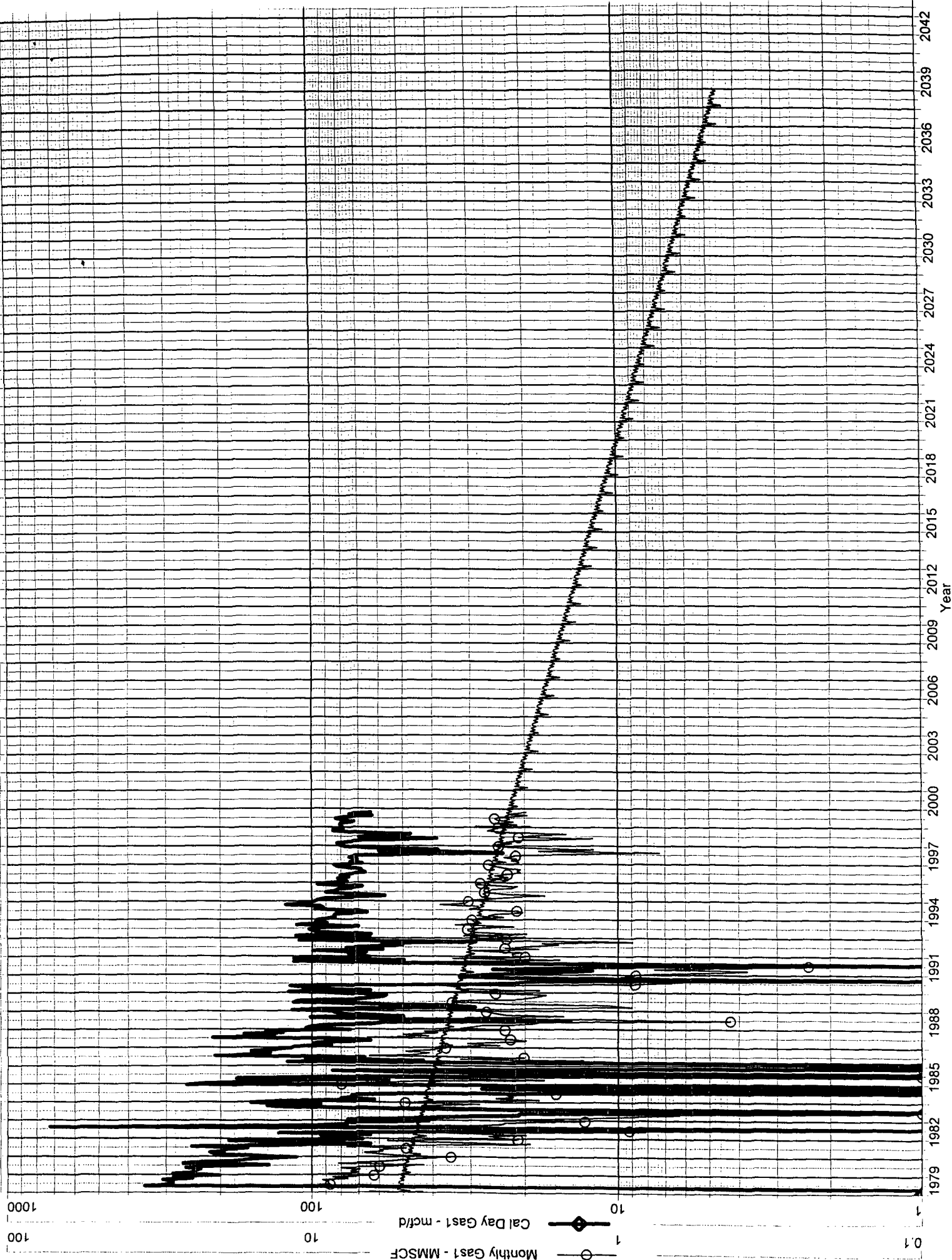
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: *Van Ryan*
Position: District Production Mgr.
Company: Southland Royalty Company
Date: January 6, 1978

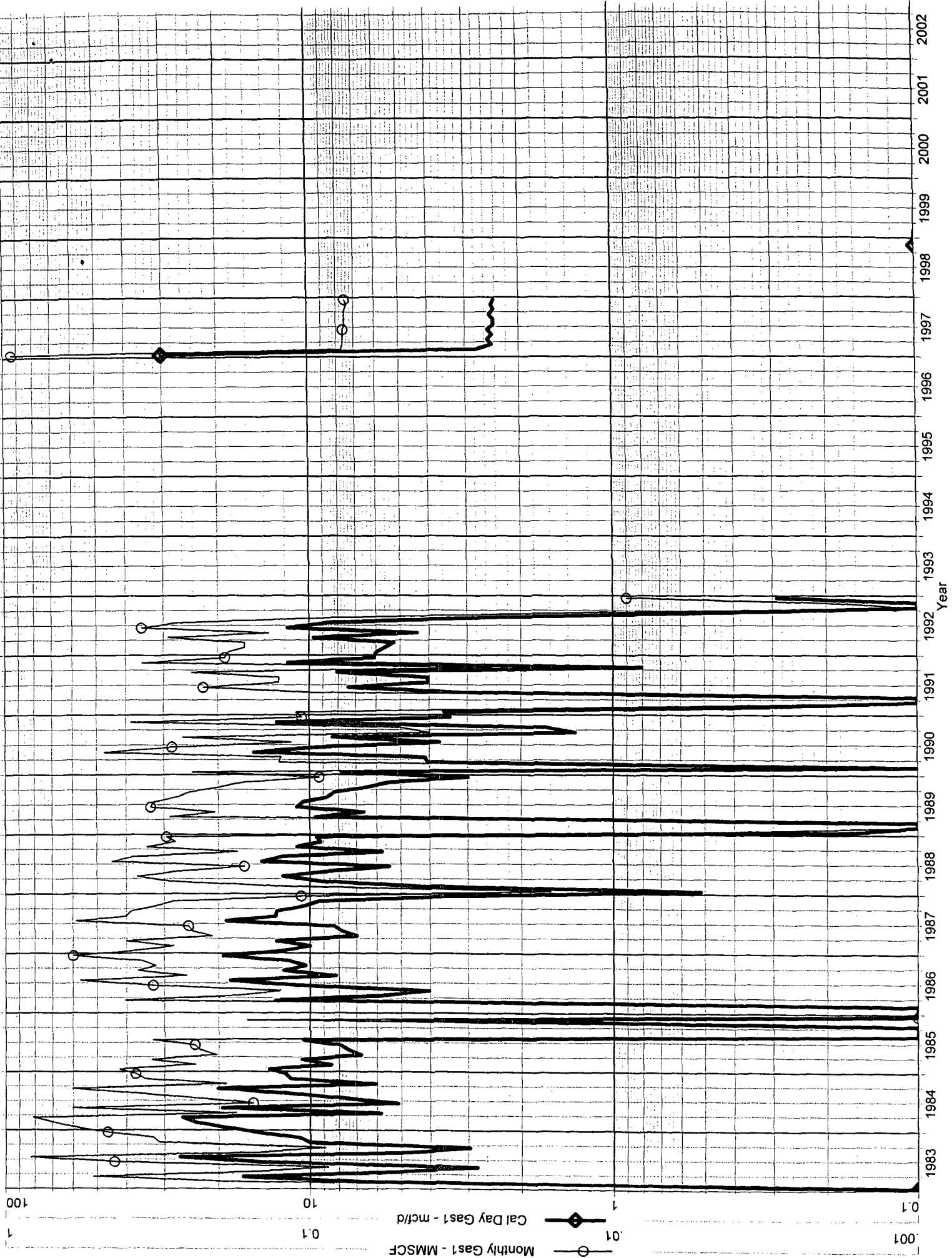
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: December 1, 1977
Registered Professional Engineer and/or Land Surveyor: *Fred B. Karr Jr.*
Certificate No.: 3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



TIIT 2A 7438802 (234524121087.781) Data: Jan. 1983-Jun. 1999



Titt #2A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Mesaverde		Pictured Cliffs	
<u>MV-Current</u>		<u>PC-Current</u>	
GAS GRAVITY	0.707	GAS GRAVITY	0.6598
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.34	%N2	0.27
%CO2	0.7	%CO2	0.198
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	4.5
DEPTH (FT)	4654	DEPTH (FT)	2460
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	163	BOTTOMHOLE TEMPERATURE (DEG F)	115
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	282	SURFACE PRESSURE (PSIA)	287
BOTTOMHOLE PRESSURE (PSIA)	316.0	BOTTOMHOLE PRESSURE (PSIA)	304.3
<u>MV-Original</u>		<u>PC-Original</u>	
GAS GRAVITY	0.707	GAS GRAVITY	0.6598
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.34	%N2	0.27
%CO2	0.7	%CO2	0.198
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	4.5
DEPTH (FT)	4654	DEPTH (FT)	246
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	163	BOTTOMHOLE TEMPERATURE (DEG F)	115
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	673	SURFACE PRESSURE (PSIA)	777
BOTTOMHOLE PRESSURE (PSIA)	760.3	BOTTOMHOLE PRESSURE (PSIA)	782.0

AIN	METER	WELLNAME	#	FRM	MONTH	PROD	3 MON AVG	Year	Month	Day	WH Pressure	Cum Prod			
7438801	34627	TITT	2A	MV	31-Jan-99	2475		1979	2	9	661		original		
					28-Feb-99	2258		1980	6	7	487				
					31-Mar-99	2491		1981	9	24	537				
					30-Apr-99	2177		1983	1	16	459				
					31-May-99	2439		1984	5	30	454				
					30-Jun-99	2493		1986	5	21	442				
					31-Jul-99	2419		1989	9	12	352				
					31-Aug-99	1954		1991	8	14	437				
					30-Sep-99	2250		1991	10	14	449				
					31-Oct-99	1973	68	1993	7	30	366				
											270	707.828	current estimate from P/Z data		
7438802	39441	TITT	2A	PC	31-Jan-99	0		1975	6	17	765		original		
Randlemon 2 PC used as offset					28-Feb-99	0		1975	7	4	0				
					31-May-99	0	0	1975	9	3	476				
								1976	5	21	482				
								1978	4	17	386				
								1980	6	12	378				
								1982	5	26	421				
								1984	8	28	417				
								1993	4	15	385				
											275	495.065	current estimate from P/Z data		