

DISTRICT I  
1625 N. Fregch 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**

**PO Box 4289, Farmington, NM 87499**

Operator **Lawson SRC** 2 Address **B-31-32N-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 **18569** API NO. **30-045-20347** 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		Basin Dakota- 71399
2. Top and Bottom of Pay Section (Perforations)	3100-3124		7590-7710
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: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 191 psi (see attachment) b. (Original) 1031 psi (see attachment)	a. b.	a. 699 psi (see attachment) b. 2902 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1000		BTU 1108
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: 3/92 Rates: 72 mcf/d  Date: Rates:	  Date: Rates:  Date: Rates:	Yes  Date: Rates:  Date: 10/31/99 Rates: 148 mcf/d
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

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

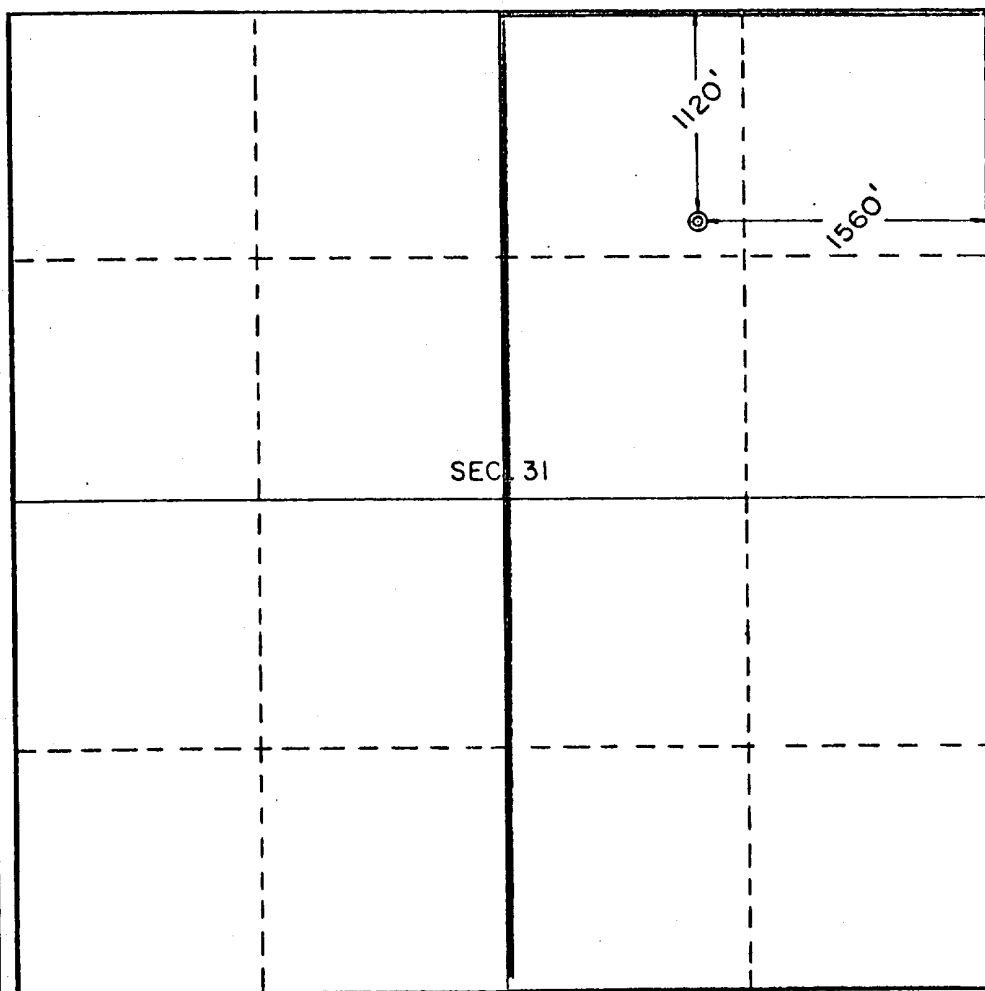
Operator <b>AZTEC OIL &amp; GAS COMPANY</b>			Lease <b>Larson SRC</b>		Well No. <b>2</b>
Unit Letter <b>B</b>	Section <b>31</b>	Township <b>32 North</b>	Range <b>11 West</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1120</b> feet from the <b>North</b> line and <b>1560</b> feet from the <b>East</b> line					
Ground Level Elev: <b>6466, ungr.</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage <b>320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 **communitization**

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.

**ORIGINAL SIGNED BY JOE C. SALMON**

Name  
**Joe C. Salmon**

Position  
**District Superintendent**

Company  
**Artec Oil and Gas**

Date  
**Sept. 18, 1968**

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  
**September 6, 1968**

Registered Professional Engineer and/or Land Surveyor

*E. J. C. Salmon*

Certificate No. **3602**

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

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

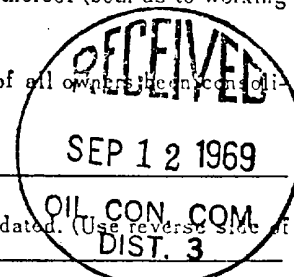
Operator <b>Aztec Oil &amp; Gas Company</b>			Lease <b>Lamson SRC</b>		Well No. <b>#2</b>
Unit Letter <b>B</b>	Section <b>31</b>	Township <b>32North</b>	Range <b>11 West</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1120</b> feet from the <b>North</b> line and <b>1560</b> feet from the <b>East</b> line					
Ground Level Elev: <b>6466 Gr</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>Wildcat West 112-2-Pictured Cliffs</b>		Dedicated Acreage: <b>160</b> 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.

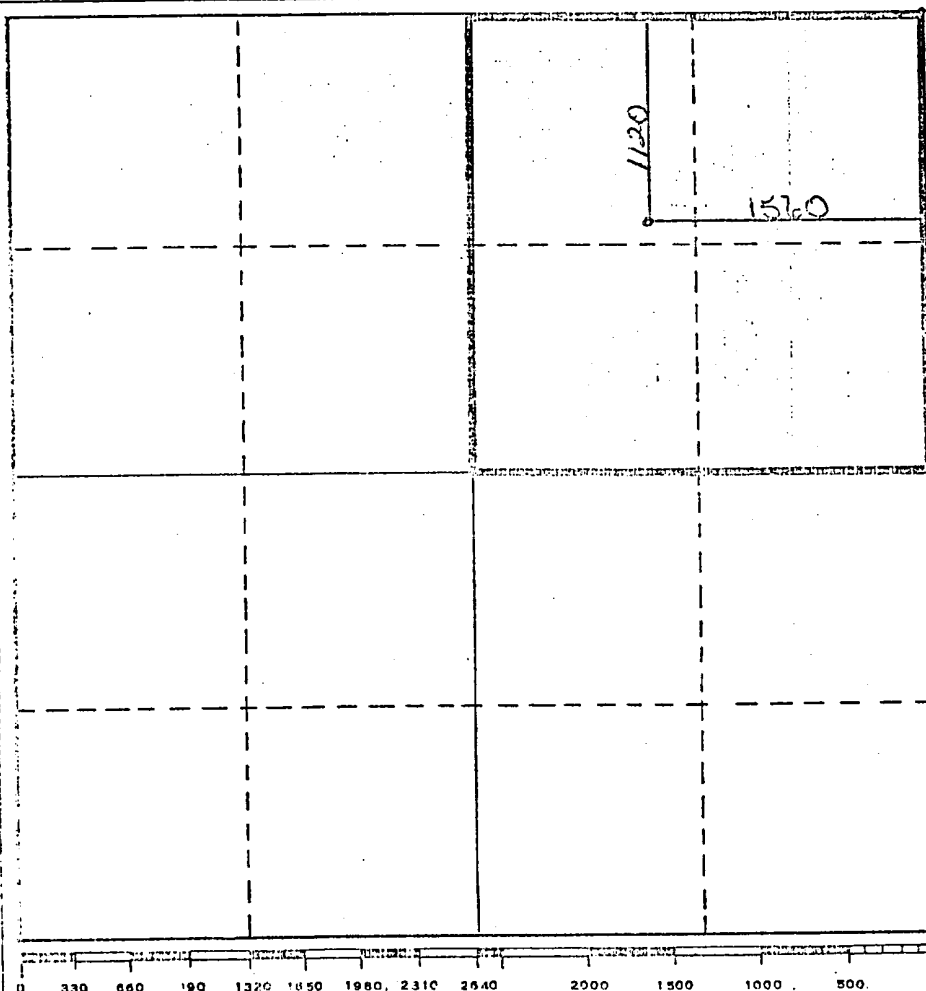
Name  
**Joe C. Salmon**  
Position  
**District Superintendent**  
Company  
**Aztec Oil & Gas Company**  
Date  
**September 11, 1969**

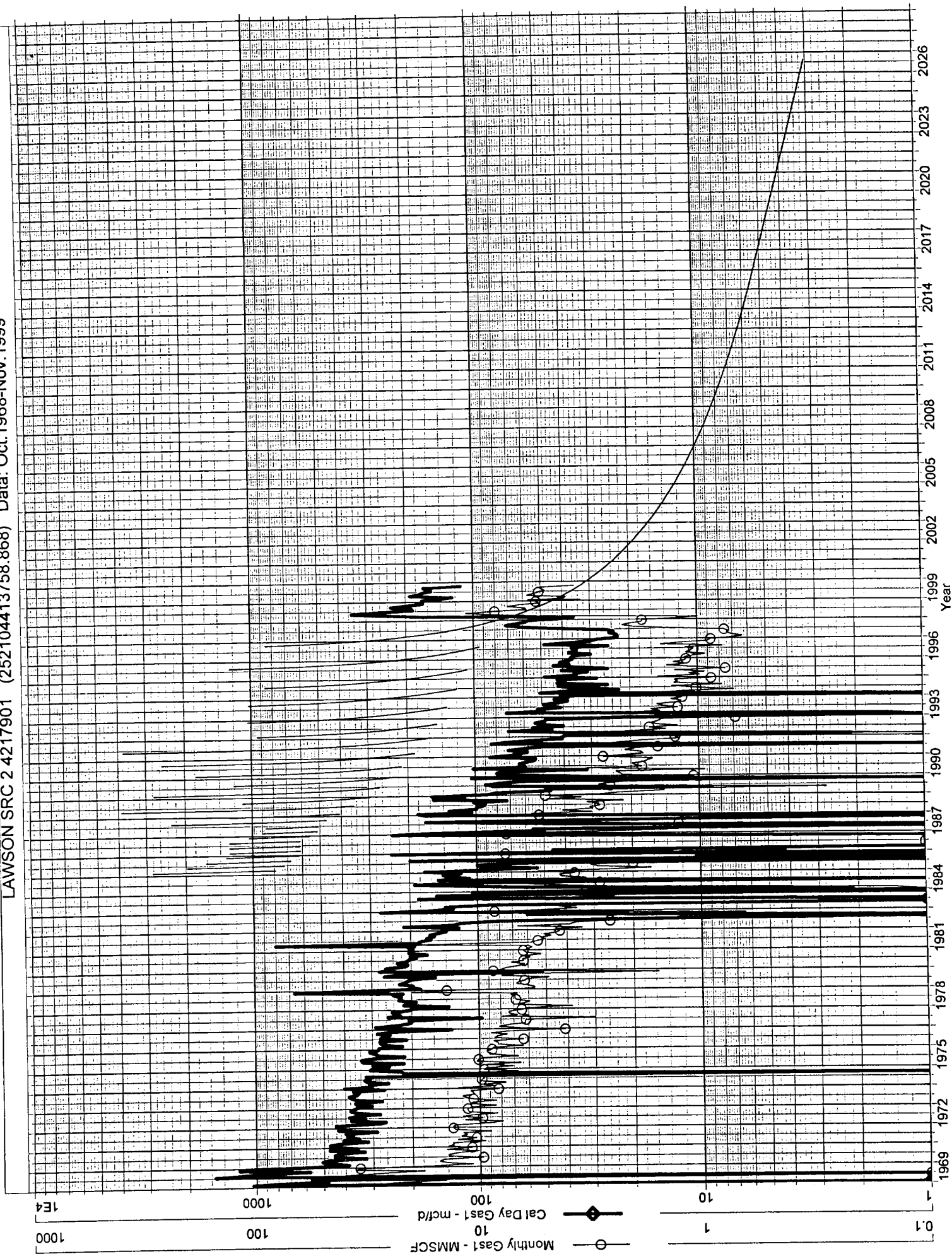
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

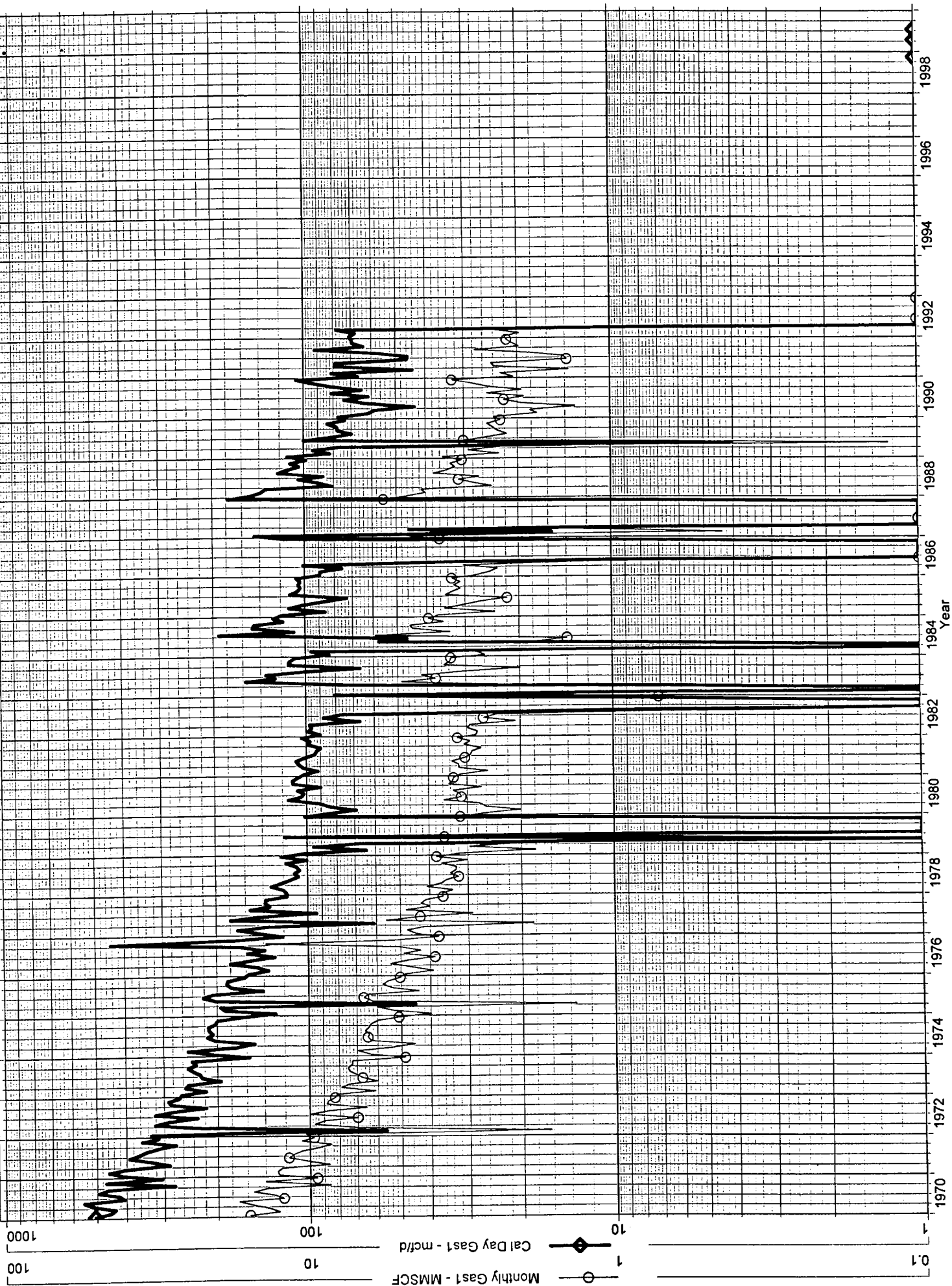
Date Surveyed \_\_\_\_\_

Registered Professional Engineer and/or Land Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_







**Lawson SRC #2**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>Pictured Cliffs</b>		<b>Dakota</b>	
<u><b>PC-Current</b></u>		<u><b>DK-Current</b></u>	
GAS GRAVITY	0.703	GAS GRAVITY	0.658
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.96	%N2	0.16
%CO2	1.44	%CO2	2.58
%H2S	0	%H2S	0
DIAMETER (IN)	7.625	DIAMETER (IN)	2.375
DEPTH (FT)	3112	DEPTH (FT)	7608
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	195
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	177	SURFACE PRESSURE (PSIA)	587
BOTTOMHOLE PRESSURE (PSIA)	191.3	BOTTOMHOLE PRESSURE (PSIA)	698.6
<u><b>PC-Original</b></u>		<u><b>DK-Original</b></u>	
GAS GRAVITY	0.703	GAS GRAVITY	0.658
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.96	%N2	0.16
%CO2	1.44	%CO2	2.58
%H2S	0	%H2S	0
DIAMETER (IN)	7.625	DIAMETER (IN)	2.375
DEPTH (FT)	3112	DEPTH (FT)	7608
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	195
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	942	SURFACE PRESSURE (PSIA)	2384
BOTTOMHOLE PRESSURE (PSIA)	1030.7	BOTTOMHOLE PRESSURE (PSIA)	2901.7

WAIN	METER	WELL NAME	#	FRM	MONTH	PROD	3 MON-AVG	Year	Month	Day	WH Pressure	Cum Prod			
4217901	75950	LAWSON SRC	2	DK	31-Jan-99	5260		1968	10	31	2,372.00		original		
					28-Feb-99	3934		1970	3	11	1,114.00				
					31-Mar-99	3849		1971	6	2	982				
					30-Apr-99	5739		1972	6	28	856				
					31-May-99	5364		1973	5	31	858				
					30-Jun-99	5092		1975	4	2	711				
					31-Jul-99	4777		1977	5	25	665				
					31-Aug-99	4967		1979	8	27	771				
					30-Sep-99	5010		1981	5	12	812				
					31-Oct-99	3519	148	1983	11	4	929				
								1985	9	4	843				
								1988	10	5	826				
								1990	4	9	827				
								1994	4	5	725				
											575	2026.05	current estimate from P/Z data		
4217902	75963	LAWSON SRC	2	PC	31-Jan-99	0		1977	5	10	930		original		
Day State 1A PC used as offset					28-Feb-99	0		1978	3	5	758				
					30-Apr-99	0		1979	6	1	572				
					31-May-99	0		1980	4	8	593				
					31-Jul-99	0	0	1982	4	7	533				
								1984	6	26	543				
											165	560.087	current estimate from P/Z data		