Form 3160-3 UNITE	STATES	v.m. Oil Cor	ns 🇪	V-Dias re		A-26
Form 3160-3 UNITED A CAUGUST, 1999) DEPARTMENT BUREAU OF LANGE	THE INTER	R1961 W. G	rand	AVADUAEXD	n approved B No. 1004-0136 ires November 36	2000
APPLICATION FOR PERMI	T TO DRILL OR	Artesia, N	8 MV	821LGE DESIGNA	TION AND SERIAL	NO.
	ENTER			NM-93189		
					TTEE OR TRIBE NA	ме
b. TYPE OF WELL: OIL SAS WELL Other _		SINGLE MU ZONE ZO	LTIPLE NE	JUNEAU CRECKE	TO NAME OF THE OWNER OWNER OF THE OWNER OW	
2. NAME OF OPERATOR				7.UNIT AGREEMEN	26	683
DEVON SFS OPERATING,			·····	8.FARM OR LEASE		<u> </u>
3a. ADDRESS AND TELEPHONE NO. 20 NORTH BROADWAY, SUITE 1500, OKC, OK		FELEPHONE (Include are (405) 235-		Riverside "31" I	Fed. Com#2	
4. LOCATION OF WELL (Report location clearly and in acc			-3011	9.API WELL NO.		
At surface (G) 1980' FNL & 1980' FEL					<u> 15 - 321</u>	83
		293037	_	10. FIELD AND POC		880
At top proposed prod. zone		(50 m)	23	Riverside (Morr	BLOCK AND SURV	EY OR AREA
	/.	(P) A	[2]	Sec. 31-T16S-R		
		2002	AST			
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POS	T OFFICE*	RECEIVED	57	12. COUNTY OR PA	ARISH	13. STATE
3 miles N. of Riverside, New Mexico	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	RECEIVESIA RECEIVESIA	89	Eddy		New Mexico
15.DISTANCE FROM PROPOSED LOCATION TO NEAREST	16.NO. OF ACRES IN LEAS	E OCO MILES	0/1	7.Spacing Unit dedicated to	o this well	
PROPERTY OR LEASE LINE, FT. 1980'	1112	(S)	~ / I	60		
(Also to nearest drlg. unit line if any) 18.DISTANCE FROM PROPOSED LOCATION*	19 PROPOSED DEPTH	67 <1 91 31 41 EV	2	0.BLM/BIA Bond No. on 1	file	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'	8700'	219191.00	i	Rotary		
21.ELEVATIONS (Show whether DF, RT, GR, etc.)	22. APPROX. DATE WORK	WILL START*	<u>_</u>	23. Estimated duration	on	
3364' GR	November 2001			45 days		
		oswell Centrolled				
The following, completed in accordance with the requirements	of Onshore Oil and Gas	Order No. 1, shall be attac	ched to this	form:		
Well plat certified by a registered surveyor.		4. Bond to cover the	operations (unless covered by an	existing bond on	file (see Item 20
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy 	stem Lands the SUPO	above). 5. Operator certificati	ion	·		•
shall be filed with the appropriate Forest Service Office).	2000 2000 000	6. Such other site spe		ation and/or plans as	may be required	by the authorized
David OPG O	W	officer.				
Devon SFS Operating, Inc. proposes to drill a Morrow w be plugged and abandoned per Federal regulations. Prog	rams to adhere to onsho	ommercial quantities of gore oil and gas regulation	as. If the value are outling	well is deemed none ned in the following	commercial, the g exhibits and at	well bore will tachments.
Drilling Program						
Surface Use and Operating Plan		The undersigned accepts				
Exhibit #1 = Blowout Prevention Equipment Exhibit #2 = Location and Elevation Plat		and restrictions concerning portions thereof, as descriptions.			e leased land or	
Ewhibit #2 - Dood Man and Ton - Man	•	portions thereof, as deser				
Exhibit #4 = Wells Within 1 Mile Radius POVAL Exhibit #5 = Rotary Rig Layout	HRIECT TO	D 10	DECL	ARED WAT	ER BASI	N
Exhibit #6 = Casing Design GENERAL RE	OHREMENT	Bond Coverage: Nations BLAGE #: UT-1195	CEME	NT REHIM	Tur 🕰	
H ₂ S Operating Plan SPECIAL STI	mii atlame	a Maria	CASIN	IG MUST E	RE CIRCU	88.8
ATTACHED	0 8000000000000000000000000000000000000				_ WANTED	LATED_
		· Surgery				
25. Signature	Name (Printed/Typed)		· · · · · · · · · · · · · · · · · · ·		Date	
12 Hard	Jim Linville	n. — pinkuluji			Date	<u> </u>
Title Title	<u> </u>				<u> </u>	0/
Sf. Operations Engineer					,	
Approved by (signature) /S/ JOE G. LARA	Name (Printed/Typed)	/S/ JOE G. LA	NRA		Date JAN 2	8 2002
REFIELD MANAGER	Office CARLS	BAD FIELD (<u> </u>
					alabara er	
Application approval does not warrant or certify that the applic operations thereon.	am notus legal or equitat	ole title to those rights in th	ne subject le	ease which would en	title the applican	i to conduct

operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

DISTRICT I 1825 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III

State of New Mexico

Rosrgy, Minerale and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	83880 RIVERSIDE MOY					
	83880						
Property Code	Property Code Property Name						
26683	RIVERSIDE "31" FEDERAL						
OGRID No.	Operat	or Name	Ele	vation			
20305	DEVON SFS O	PERATING, INC.	33	64'			
	Surface	E Location					

Bottom Hole Location If Different From Surface									
G	31	16 S	27 E		1980	NORTH	1980	EAST	EDDY
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
		Į.							
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.		<u> </u>		
1160	Infill							•	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

F			
			OPERATOR CERTIFICATION
		1//////////	I hereby certify the the information
		// // /i / / I	contained herein is true and complete to the best of My knowledge and belief.
		[///i/////	
			1 // M/10//
		/ / · / · / · /	42 /VIIII
 	 	+-/ -/ / //	Signature
			Jim Linville, Ir.
		3395.2' 31/4.3'	Sr. Operations Engineer
		1980	1
		3365.0' - 3662.4'	October 15, 2001
		V / X / /	
	· · · · · · · · · · · · · · · · · · ·		SURVEYOR CERTIFICATION
		Lat N32*52'51.3" Leng - W194*18'57.1"	I hereby certify that the well location shown
			on this plat was platted from field notes of actual surveys made by me or under my
		/ / i/ / x	supervison, and that the same is true and
			correct to the best of my belief.
			September 18, 2001
			Date Surveyed
 		f- <i>-/</i> //	Signature & Seal of Professional Surgeyor
	& N		LIEN MEXIC
	JUST XX	r / /	1 A Total
	Rill of Jack Y	0-660-	LEDWAY III
		0-660-	W.O. No. 1868A
	16 .		Certificate No. Gary L. Signes 7977
	'X *		PROFESSIONAL LIMIT
			The Property of a law

Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS Devon SFS Operating, Inc. RIVERSIDE 31 FEDERAL COM # 2 (G) 1980' FNL & 1980' FEL, Section 31-T-16-S, R-27-E Eddy County, New Mexico

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11.All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

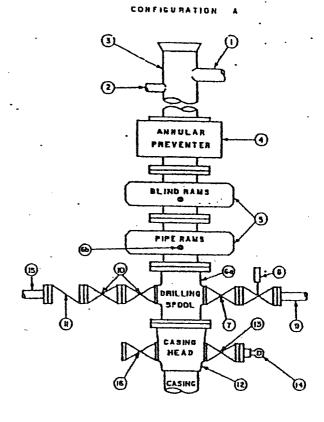
3,000 psi Working Pressure

3 MWP

EXHIBIT# 1 ..

STACK REQUIREMENTS

			Min.	Min.
No.	llem		I.D.	Nominal
1	Flowline			
2	Fill up line			2-
3	Drilling nipple			
4	Annular preventer	·		
5	Two single or one dual hy operated rams		_	
5a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gate () Plug ()	3-1/8"	
8	Gale valve—power opera	ited	3-1/8"	·
9	Line to choke manifold		1	3°
10	Valves	Gate C Plug C	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate D Plug D	1-13/16*	
14	Pressure gauge with nee	die valve		
15	Kill line to rig mud pump			2"



	OPTIO	DNAL.
16	Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 pal, minimum.
- 2.Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
 - BOP controls, to be located near drillers position.
 - 4. Kelly equipped with Kelly cock.
 - 5. Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
 - 6.Kelly saver-sub equipped with rubber casing protector at all times.
 - 7.Plug type blowout preventer tester.
 - Extra set pipe rams to fit drill pipe in use on location at all times.
 - 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves.
- 2. Wear bushing, if required.

GENERAL NOTES:

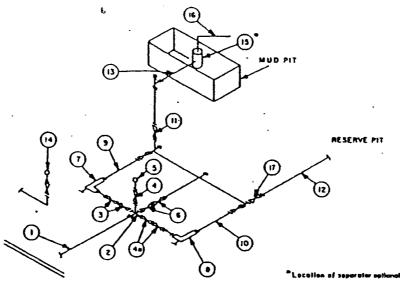
- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, littings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwhoels or handles ready for immediate use.
- 5. Choke lines must be sultably anchored.

- 7. Handwheets and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling apool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP

EXHIBIT# 1



BEYOND SUBSTRUCTU	8	u	T	c	U	1	R	T	3	B	U	3	ì	D	N	0	Y	E	3
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

	· · · · · · · · · · · · · · · · · · ·		MINI	NUM REQU	HREMENTS	3				
			3,000 MWP			5,000 MWP		10,000 MWP		
No.		I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING	1.D.	NOMINAL	BATING
1	Une from drilling spool		3-	3,000		3-	5,000		3-	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
-	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate []	3-1/8*		3,000	3-1/8*		5,000	3-1/8"		10,000
4	Valve Gale () Plug ()(Z)	1-13/16*		3,000	1-13/16"		5,000	1-13/16"		10,000
43	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000		1	10,000
6	Valves Gate C Plug □(2)	3-1/8*		3,000	3-1/6"		5,000	3-1/8*		10,000
7	Adjustable Choke(3)	2*		3,000	2-		5,000	2-		10,000
8	Adjustable Choke	1.		3,000	1-		5,000	2"		10,000
9	Line		, 3-	3,000		3-	5,000		3-	10,000
10	Line		2*	3,000		2-	5,000		3"	10,000
11	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Unes		3*	1,000		3-	1,000		3"	2,000
13	Lines		3-	1,000		3-	1,000	· ·	3"	2,000
14	Plemote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Une		4*	1,000		4.	1,000		4"	2,000
17	Valves Gete (1)	3-1/8-		3,000	3-1/8"		5,000	3-1/8"		10,000

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskets shall be API RX or BX, Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas apparator should vent as far as practical from the well.

DRILLING PROGRAM

Attached to Form 3160-3
Devon SFS Operating, Inc.

RIVERSIDE 31 FEDERAL COM # 2

(G) 1980' FNL & 1980' FEL, Section 31-T-16-S, R-27-E

Eddy County, New Mexico

1. <u>Geologic Name of Surface Formation</u>

Alluvium

2. <u>Estimated Tops of Important Geologic Markers</u>

Queen	500'
Glorietta	2600'
Abo	4500'
Wolfcamp	5700'
Atoka	8100'
Morrow	8200'
Mississippian	8500'
TD	±8,700'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows.

Water:

None expected in area

Gas:

Morrow @ 8,200' - 8,400'

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 8 5/8" casing at 1400' and circulating cement back to surface. The oil and gas intervals will be isolated by setting

5 1/2" casing at TD and bringing cement top to approximately 6000'.

RIVERSIDE 31 FEDERAL COM # 2 DRILLING PLAN PAGE 2

4. <u>Casing Program</u>

INTERVALS	<u>LENGTH</u>	<u>CASING</u>	BURST PSI	COLLAPSE PSI	TENSION LBS	TORQUE FT-LBS
<u>Surface</u> 0 - 1400'	1400'	8 5/8" 32# J-55 STC	3930	2530	372M	4020
<u>Production</u> 0 - 1500'	1500'	5 1/2" 17# L-80 LTC	7740	5549	338M	3410
1500' - 5200'	3700'	5 1/2" 15.5# J-55 LTC	4810	3680	217M	2390
5200' - 8700'	2000'	5 1/2" 17# L-80 LTC	7740	6290	338M	3410

Cementing Program

8 5/8" Surface Casing:	Cement to surface with 464 sxs (35:65) Poz (Fly Ash): Class C Cement + 6% bwoc Bentonite +5% bwow Sodium Chloride + 1/4lb/sx celloflk + 100.7% Fresh Water with 200 sxs Class C + 2% bwoc Calcium Chloride +1/4lb/sx celloflk + 56.3% Fresh Water
5 ½" Production Casing:	Cement to 8700' – with 485 sxs Class H + 3% bwow Potassium Chloride + 1% bwow FL-25 + 0.1% bwow Sodium Metasilicate + 5lbs/sxs LCM-1 + .25 lbs/sxs Cello Flake + .003 gps FP-13L + 46.5%Fresh Water

The cement volumes for the 5 1/2" casing will be revised pending the caliper measurement from the open hole logs.

5. <u>Minimum Specifications for Pressure Control</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag-type (Hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydril will be function tested.

RIVERSIDE 31 FEDERAL COM # 2 DRILLING PLAN PAGE 3

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System

The well will be drilled to total depth brine with starch mud systems. Depths of systems are as follows.

<u>Depth</u>	<u>Type</u>	Weight (ppg)	Viscosity (1/sec)	Water Loss
0' – 1400'	Fresh Water	8.4 - 8.8	32 - 34	(cc)
1400' – 4600'	Brine	8.4 - 8.5	28 - 30	No control
4600' – 8,000'	Cut Brine	9.0 - 9.2	28 - 30	No control
8,000' – TD	Starch / mud	9.0 - 9.2	34 - 38	No control
				10-6

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

8. <u>Logging, Testing and Coring Program</u>

- A. Drill stem tests may be run on potential pay interval.
- B. The open hole electrical logging program will be as follows.

RIVERSIDE 31 FEDERAL COM # 2 DRILLING PLAN PAGE 4

- 1) GR/DLL/MLL from total depth to base of intermediate casing.
- 2) GR/CNL/Z-DENSILOG-CALIPER from total depth to base of intermediate casing with GC/CNL to surface.
- C. No coring program is planned.
- D. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. <u>Abnormal Pressures, Temperatures and Potential Hazards</u>

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 140 degrees and maximum bottom hole pressure is 4100 psi. No Hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated Starting Date and Duration of Operations

Road and location preparation will not be undertaken until approval has been received from the BLM. If approved, this well will be drilled as part of a development project. The anticipated spud date for the project is in November 2001. The drilling operation should require approximately 45 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

SURFACE USE AND OPERATING PLAN

Attached to Form 3160-3

RIVERSIDE 31 FEDERAL COM # 2

(G) 1980' FNL & 1980' FEL, Section 31-T-16-S, R-27-E

Eddy County, New Mexico

1. Existing Roads

- A. The well site and elevation plat for the proposed **RIVERSIDE 31 FEDERAL COM # 2** are reflected on Exhibit #2.
- B. All roads into the location are depicted in Exhibit #3. New construction from the existing lease road will be used to access the location. New construction will conform to the specifications outlined in Item #2 below.
- C. Directions to location: From Jct. Hwy 82 & Co. Road 200 (Carr Ranch Road), go 3.1 miles North on Co. Rd. 200 to a existing lease road also being the beginning of the proposed lease road.

2. Proposed Access Road

Exhibit #3 shows the existing lease road. Access to this location will require the construction of about 1,487' of proposed access road. All new construction will adhere to the following.

- A. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- B. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- C. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. <u>Location of Existing Wells</u>

Exhibit #4 shows all existing wells within a one-mile radius of the proposed RIVERSIDE 31 FEDERAL COM # 2.

4. Location of Existing and/or Proposed Facilities

- A. In the event the well is found productive, the necessary production equipment will be installed at the well site.
- B. If the well is productive, rehabilitation plans are as follows.
 - 1) The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after completion, weather permitting).
 - 2) Caliche from unused portions of the drilling pad will be removed. The original topsoil from the well site will be returned to the location. The drill site will then be contoured to the original natural state.

5. Location and Type of Water Supply

The RIVERSIDE 31 FEDERAL COM # 2 will be drilled using a combination of brine and fresh water mud systems (outlined in Drilling Program). The water will be obtained from commercial sources and will be transported over the existing and proposed roads. No water well will be drilled on the location.

6. <u>Source of Construction Materials</u>

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit. All roads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal

- A. Drill cuttings will be disposed into the reserve pit.
- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain excess drilling fluid or fluid from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit roughly 125' x 125' x 6', or smaller, in size.
- C. The reserve pit will be fenced on three sides throughout drilling operations and will be totally isolated upon removal of the rotary rig. The pit will be lined using a 5-7 mil plastic to minimize loss of drilling fluids and saturation of the ground with brine water used during drilling.
- D. Water produced from the well during completion operations will be disposed into a steel tank or reserve pit, if volumes prove excessive. After placing the well on production through the production facilities, all water will be collected in tanks. Produced oil will be separated into steel stock tanks until sold.
- E. A portable chemical toilet will be available on the location for human waste during the drilling operations.
- F. Garbage, trash and waste paper produced during drilling operations will be collected in a contained trailer and disposed at an approved landfill. All waste material will be contained to prevent scattering by the wind. All water, fluids, salt or other chemicals will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be generated by this operation.
- G. All waste material will be removed within 30 days after the well is either completed or abandoned. The reserve pit will be completely fenced until it has dried. At the point the reserve pit is found sufficiently dry, it will be backfilled and reclaimed as per BLM specifications. Only the portion of the drilling pad used by the production equipment (pumping unit and tank battery) will remain in use. If the well is deemed non-commercial only a dry hole marker will remain.

8. Ancillary Facilities

No permanent campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout

- A. The drilling pad is shown on Exhibit #5. The pad, pits and general location of the rig equipment are displayed. Top soil will be stored adjacent to the pad until reclamation efforts are undertaken. Only modest cuts will be necessary to build the pad which will be covered with 6" of compacted caliche.
- B. No permanent living facilities are planned, but temporary trailers for the tool pusher, drilling foreman and mud logger may be on location throughout drilling operations.
- C. The reserve pit will be lined using plastic sheeting of 5-7 mil thickness.

10. Plans for Restoration of Surface

- A. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will be returned to the pad and contoured, as close as possible, to the original topography.
- B. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.
- C. The location and road will be rehabilitated as recommended by the BLM.
- D. The reserve pit will be fenced on three sides throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.

E. If the well is deemed commercially productive, the reserve pit will be restored as described in 10 (A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drilling pad not necessary to operate the well. These unused areas of the drilling pad will be contoured, as close as possible, to match the original topography.

11. Surface Ownership

The well site is owned by the Bureau of Land Management.

Road routes have been approved by the BLM.

The surface location will be restored as directed by the BLM.

12. Other Information

- A. The project area is located in shallow sandy loams with Ogallala gravels and exposure of limestone and caliche, and earthy gypsum. Vegetation in the area consists of little leaf sumac, grass, and yucca.
- B. There is no permanent water in the immediate area.
- C. Land use is for oil and gas production, grazing and hunting.
- D. A Cultural Resources Examination will be completed and forwarded to the BLM office in Carlsbad, New Mexico.

13. Lessee's and Operator's Representative

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Jim L. Linville, Jr.

Sr. Operations Engineer

Devon Energy Production Company, L.P. 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260

(405) 228-4261 (office) (405) 330-4151(home)

Don Mayberry Superintendent

Devon Energy Production Company, L.P. Post Office Box 250 Artesia, NM 88211-0250

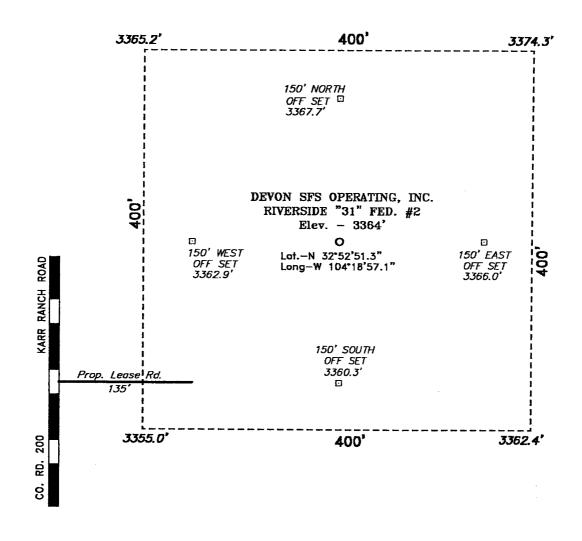
(505) 748-3371 (office) (505) 746-4945 (home)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Devon Energy Production Company, L.P. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Senior Operations Engineer

SECTION 31, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF US HWY 82 & CO. RD. 200, GO NORTH ON KARR RANCH ROAD FOR 3.3 MILES TO A PROPOSED LEASE ROAD.

100 0 100 200 FEET

| SCALE: 1" = 100'

DEVON SFS OPERATING, INC.

REF: RIVERSIDE "31" FED. No. 2 / Well Pad Topo

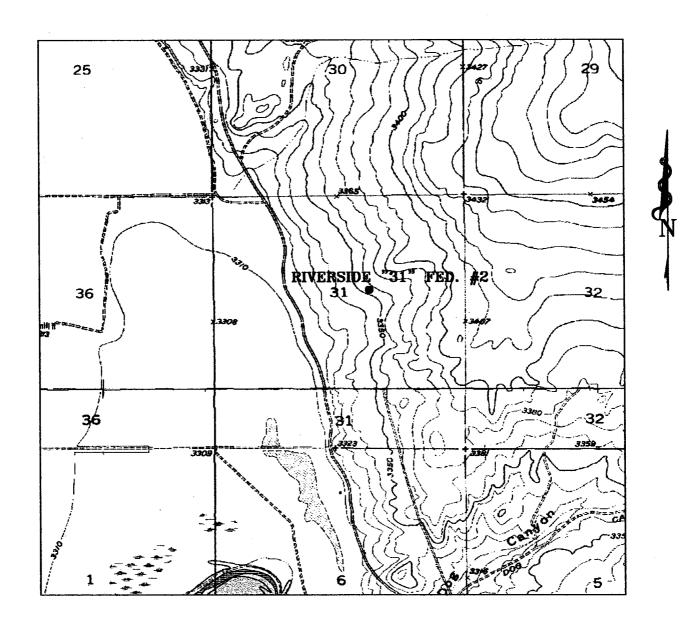
THE RIVERSIDE "31" FED. No. 2 LOCATED 1980' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 1869 Drawn By: K. GOAD

Date: 09-20-2001 Disk: KJG CD#4 - 1869A.DWG

Survey Date: 09-18-2001 Sheet 1 of 1 Sheets



RIVERSIDE "31" FED. #2
Located at 1980' FNL and 1980' FEL
Section 31, Township 16 South, Range 27 East,
N.M.P.M., Eddy County, New Mexico.

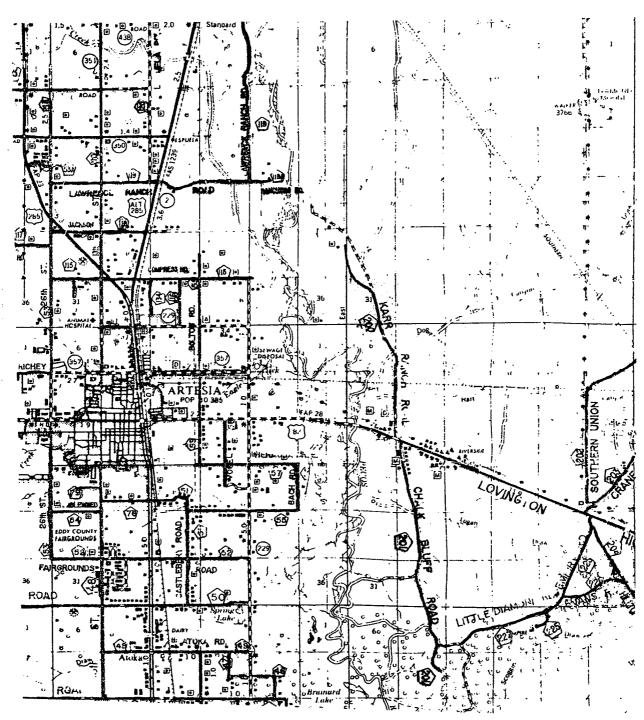
Date: 09-20-2001



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number:	1869AA — KJG CD#4
Survey Date:	09-18-2001
Scale: 1" = 20	000,

DEVON SFS OPERATING, INC.



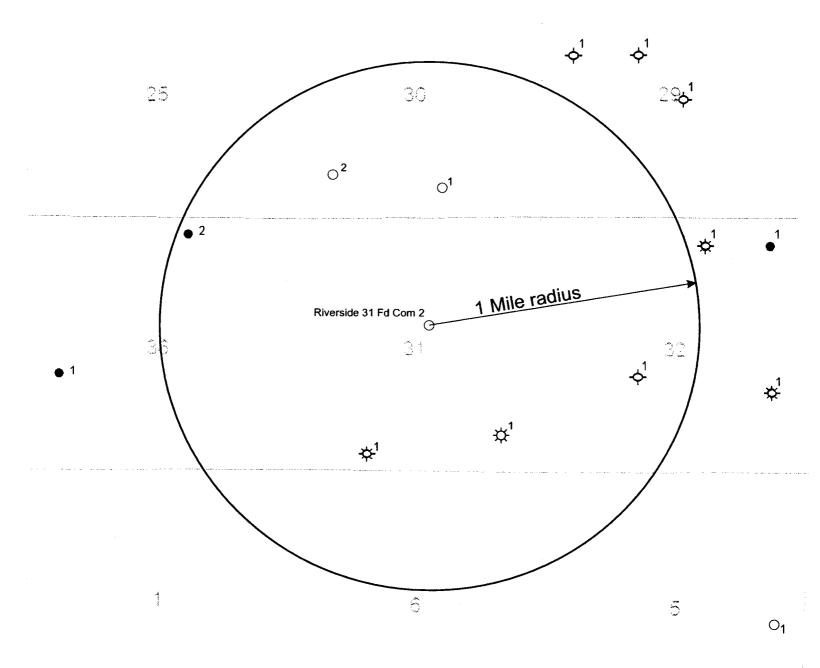
RIVERSIDE "31" FED. #2 Located at 1980' FNL and 1980' FEL Section 31, Township 16 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.

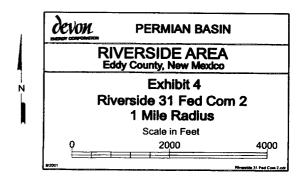


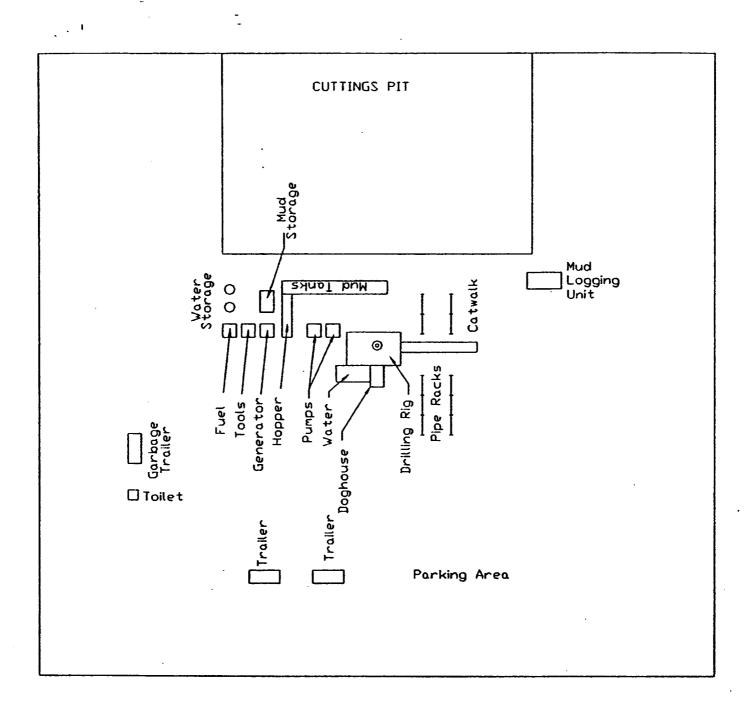
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number:	1869AA — KJG CD#4
Survey Date:	09-18-2001
Scale: 1" = 2	MILES
Date: 09-20-	-2001

DEVON SFS OPERATING, INC.

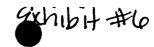






Drilling Pad EXHIBIT 5

7 7



Well name:

Riverside 31-2

Operator:

Devon Energy

String type:

Surface

Location:

Eddy County, New Mexico

Design parameters:

Collapse

Mud weight:

10.000 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

1.125

Environment:

H2S considered? Surface temperature:

No 75 °F

Bottom hole temperature: Temperature gradient:

95 °F

1.40 °F/100ft

Burst:

Design factor

1.00

Minimum section length: 1,000 ft

Burst

Max anticipated surface

No backup mud specified.

pressure:

3,475 psi

Internal gradient: Calculated BHP

0.120 psi/ft

3,643 psi

Tension: 8 Round STC:

8 Round LTC: **Buttress:**

Premium:

Body yield:

1.80 (J)

1.60 (J) 1.50 (J) 1.60 (B)

1.80 (J)

Tension is based on air weight. Neutral point: 1,192 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight:

10.000 ppg Next setting BHP: 4,519 psi Fracture mud wt: 19.250 ppg

Fracture depth: Injection pressure 8,700 ft 8.700 psi

8,700 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	1400	8.625	32.00	J-55	ST&C	1400	1400	7.875	11171
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (kips)	Strength (kips)	Design Factor
1	727	2530	3.48	3643	3930	1.08	44.8	372	8.30 J

Prepared

Terry Henderson

by:

Devon Energy

Date: September 21,2001 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 1400 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: Operator:

String type:

Devon Energy

Production

Location:

Eddy County, New Mexico

Design parameters:

Collapse

Mud weight:

10.000 ppg

Design is based on evacuated pipe.

Minimum design factors:

Riverside 31-2

Collapse:

Design factor

1.125

Environment:

H2S considered? Surface temperature:

Non-directional string.

No 75 °F

Bottom hole temperature: Temperature gradient:

197 °F 1.40 °F/100ft

Minimum section length: 1,000 ft

Burst:

Design factor

1.00

1.80 (J)

1.80 (J)

1.60 (J)

1.50 (J)

1.60 (B)

Burst

Max anticipated surface

pressure: Internal gradient: 3,475 psi 0.120 psi/ft

Calculated BHP

4,519 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress: Premium:

Body yield:

Tension is based on air weight.

Neutral point:

7,431 ft

Estimated cost:

44,744 (\$)

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
3	1500	5.5	17.00	L-80	LT&C	1500	`1500	4.767	9504
2	3700	5.5	15.50	J-55	LT&C	5200	5200	4.825	13065
1	3500	5.5	17.00	L-80	LT&C	8700	8700	4.767	22175
Run Seq	Collapse Load	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design	Tension Load	Tension Strength	Tension Design
_	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
3	779	5549	7.12	3655	7740	2.12	142.3	338	2.37 J
2	2701	3680	1.36	4099	4810	1.17	116.8	217	1.86 J
1	4519	6290	1.39	4519	7740	1.71	59.5	338	5.68 J

Prepared

Terry Henderson

Devon Energy by:

Date: October 5,2001 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 8700 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



DEVON ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

A. Hydrogen Sulfide Training

All rig crews and company personnel will receive training from a qualified instructor in the following areas prior to penetrating any hydrogen sulfide bearing formations during drilling operations:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of the H2S safety equipment and of personal protective equipment to be utilized at the location such as H2S detection monitors, alarms and warning systems, and breathing equipment. Briefing areas and evacuation procedures will also be discussed and established.
- 3. Proper rescue techniques and procedures will be discussed and established.

In addition to the above, supervisory personnel will be trained in the prevention of oil and gas well blowouts in accordance with Minerals Management Service Standards Subpart - 0 - 250 - 212.

Prior to penetrating any known H2S bearing formation, H2S training will be required at the rig sight for all rig crews and company personnel that have not previously received such training. This instruction will be provided by a qualified instructor with each individual being required to pass a 20 question test regarding H2S safety procedures. All contract personnel employed on an unscheduled basis will be required to have received appropriate H2S training.

This Hydrogen Sulfide Drilling And Operations Plan shall be available at the wellsite during drilling operations.

B. H2S Safety Equipment And Systems

All H2S safety equipment and systems will be installed, tested, and operational when drilling operations reach a depth approximately 500' above any known or probable H2S bearing formation. The safety systems to be utilized during drilling operations are as follows:

1. Well Control Equipment

- (a) Double ram BOP with a properly sized closing unit and pipe rams to accommodate all pipe sizes in use.
- (b) A choke manifold with a minimum of one remote choke.

2. H2S Detection And Monitoring Equipment

- (a) Three (3) H2S detection monitors will be placed in service at the location. One monitor will be placed near the bell nipple on the rig floor, one will be placed at the rig substructure; and, one will be at the working mud pits or shale shaker. This monitoring system will have warning lights and audible alarms that will alert personnel when H2S levels reach 10 ppm.
- (b) One (1) Sensidyne Pump with the appropriate detection tubes will also be available to perform spot checks for H2S concentrations in any remote or isolated areas.

3. Protective Equipment For Essential Personnel

Protective equipment will consist of the following:

- (a) Four (4) five minute escape packs located at strategic points around the rig.
- (b) Two (2) thirty minute rescue packs to be located at the designated briefing areas.

4. Visual Warning System

Visual warning system will consist of the following:

- (a) Two wind direction indicators.
- (b) One condition / warning sign which will be posted on the road providing direct access to the location. The sign will contain lettering of sufficient size to be readable at a reasonable distance from the immediate location. The sign will inform the public that a hydrogen sulfide gas environment could be encountered at the location.

5. Mud Program

(a) The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight and safe drilling practices (for example, keeping the hole filled during trips) will minimize hazards when drilling in H2S bearing formations.

6. Metallurgy

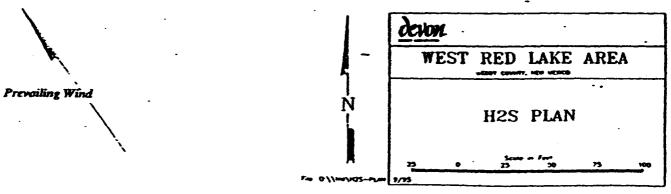
(a) All drill strings, casings, tubing, wellhead, blowout preventers, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

7. Communication

(a) Two way radio and cellular telephone communication will be available in company vehicles.

C. Diagram of Drilling Location

1. Attached is a diagram representing a typical location layout as well as the location of H2S monitors, briefing areas, and wind direction indicators.





United States Department of the Interior

BUREAU OF LAND MANAGEMENT Colorado State Office 2850 Youngfield Street Lakewood, Colorado 80215-7076

IN REPLY REFER TO

3106 COC15976 et àl.

November 22, 2000

NOTICE

Devon Energy Production Company, L. P. :

Oil and Gas Leases

20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

Merger Recognized

Acceptable evidence has been received in this office concerning the merger of Devon Energy Corporation (NV) and PennzEnergy Exploration and Production Company, LLC with and into Devon Energy Production Company, L.P., with Devon Energy Production Company, L.P. as the surviving entity.

For our purposes, the merger is recognized effective January 20, 2000 the date the Secretary of State of Colorado certified the merger.

The oil and gas lease files identified on the exhibit, supplied by your office, have been noted as to the merger. We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating interests. Minerals Management Service and all applicable Bureau of Land Management State Offices of this merger by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you have any questions regarding this correspondence, you may contact me at (303) 239-3768, or FAX (303) 239-3799.

Martha L. Maxwell, Land Law Examiner

Fluid Minerals Adjudication

Enclosure

Lease Exhibit