

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address SAMSON RESOURCES CO 2 W 2ND ST TULSA, OK 74103		2. OGRID Number 20165
		3. API Number 30-025-38768
4. Property Code 37004	5. Property Name CATTLEMAN 4 STATE	6. Well No. 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	4	21S	35E	J	3732	N	1780	E	LEA

8. Pool Information

OSUDO, MORROW, SOUTH (GAS)	82200
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3615
14. Multiple N	15. Proposed Depth 12000	16. Formation Morrow	17. Contractor	18. Spud Date
Depth to Ground water 100		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 miles thick Clay <input type="checkbox"/> Pit Volume: 20000 bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	400	300	0
Int1	12.25	9.625	40	5300	2200	0
Int2	8.75	7	26	10700	1500	8000
Prod	6.125	4.5	11.6	12000	250	10400

Casing/Cement Program: Additional Comments

Samson proposes to drill and test the Morrow formations. Approximately 1875' of surface casing will be set/cemented. If commercial, intermediate/production casing will be run/cemented, will perforate/stimulate as needed for production.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	Shaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCB guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCB-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Brad Hargrove	Approved By: Paul Kautz
Title: Manager	Title: Geologist
Email Address: bhargrove@samson.com	Approved Date: 2/19/2008 Expiration Date: 2/19/2010
Date: 2/18/2008 Phone: 918-591-1939	Conditions of Approval Attached

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(505) 393-6161 Fax:(505) 393-0720

District II
 1301 W. Grand Ave., Artesia, NM 88210
 Phone:(505) 748-1283 Fax:(505) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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Form C-102
 Permit 68913

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-38768	2. Pool Code 82200	3. Pool Name OSUDO;MORROW, SOUTH (GAS)
4. Property Code 37004	5. Property Name CATTLEMAN 4 STATE	6. Well No. 001
7. OGRID No. 20165	8. Operator Name SAMSON RESOURCES CO	9. Elevation 3615

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	4	21S	35E	10	3732	N	1780	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 320.00	13. Joint or Infill	14. Consolidation Code	15. Order No.						

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

	<p align="center">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Brad Hargrove Title: Manager Date: 2/18/2008</p>
	<p align="center">SURVEYOR CERTIFICATION</p> <p><i>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 belief.</i></p> <p>Surveyed By: Ronald Eidson Date of Survey: 12/3/2007 Certificate Number: 3239</p>

Permit Comments

Operator: SAMSON RESOURCES CO , 20165

Well: CATTLEMAN 4 STATE #001

API: 30-025-38768

Created By	Comment	Comment Date
DMULL	OCD received form C-102, Well location & Acreage dedication plat. 320 ac, lay down, Lots 9 - 16.	2/19/2008

Permit Conditions of Approval

Operator: SAMSON RESOURCES CO , 20165

Well: CATTLEMAN 4 STATE #001

API: 30-025-38768

OCD Reviewer	Condition
pkautz	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines