

30-045-27526

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-077648
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR SOUTHLAND ROYALTY CO.	7. UNIT AGREEMENT NAME
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME DAVIS
4. LOCATION OF WELL 2500'N 1545'E	9. WELL NO. 505
14. DISTANCE IN MILES FROM NEAREST TOWN 6 MILES FROM AZTEC	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION 1545' TO NEAREST PROPERTY OR LEASE LINE.	11. SEC. T. R. M OR BLK. G SEC. 12 T31N R12W NMPM
16. ACRES IN LEASE 2192.38	12. COUNTY SAN JUAN
17. ACRES ASSIGNED TO WELL 278.78	13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 600' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 2847'
20. ROTARY OR CABLE TOOLS ROTARY	21. ELEVATIONS (DF, FT, GR, ETC.) 6291'GL
22. APPROX. DATE WORK WILL START	23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

RECEIVED

OCT 26 1989

24. AUTHORIZED BY:

REGULATORY AFFAIRS

CON. DIV. -6-89
DIST. 3 DATE

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____ TITLE _____

DATE OCT 23 1989

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3 AREA MANAGER

NM000

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company			Lease Davis (SF-077648)		Well No. 505
Unit Letter G	Section 12	Township 31 North	Range 12 west	County San Juan	
Actual Forage Location of Well: 2500 feet from the North line and 1545 feet from the East line					
Ground level Elev. 6291'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 278.78 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 interest 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 interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

Peggy Bradfield
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

Southland Royalty

Company

10-6-89

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or 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

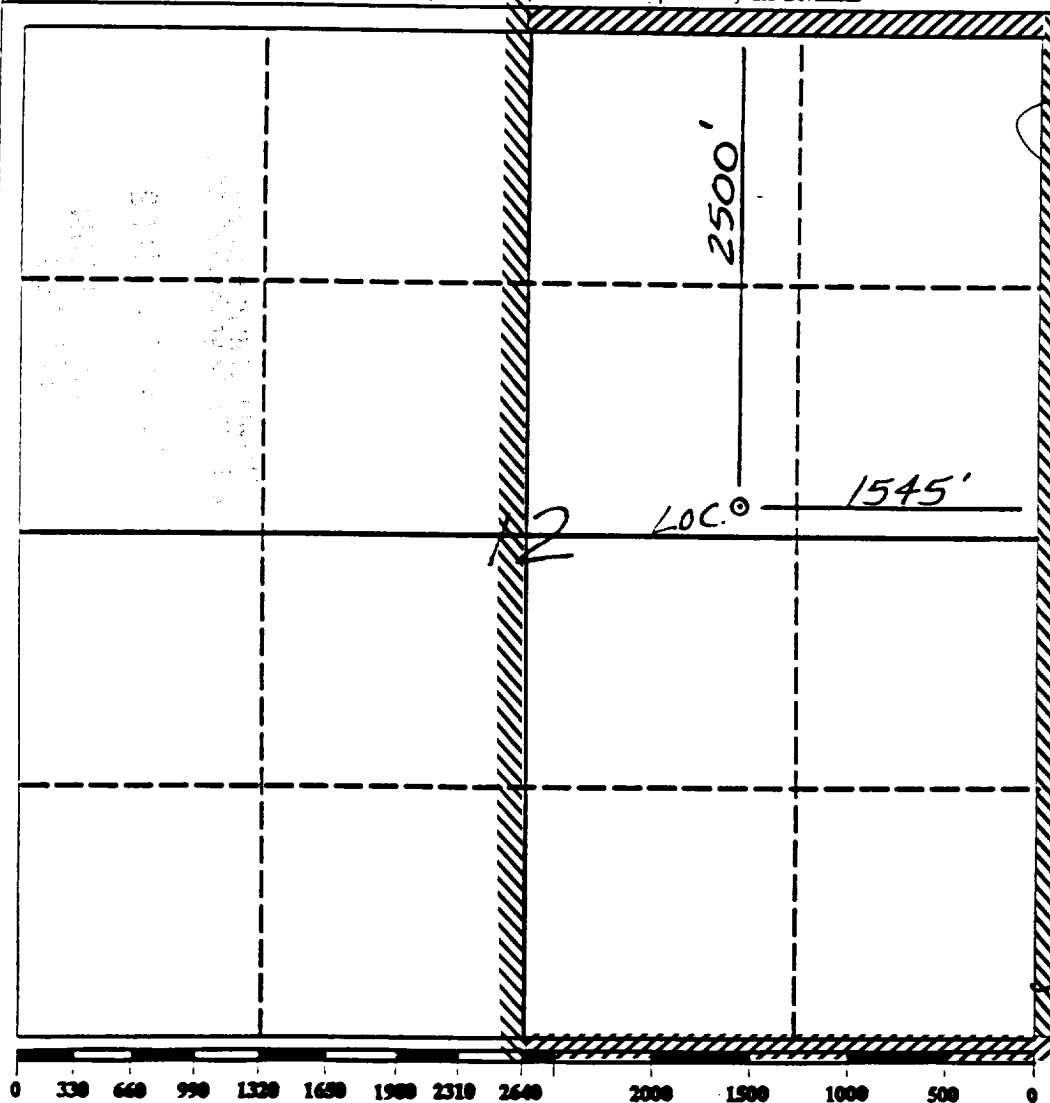
Neale C. Edwards

Signature and Seal of
Professional Surveyor

REGISTERED LAND SURVEYOR

Certificate No.

6857



Well Name: 505 DAVIS
 Sec. 12 T31N R12W
 BASIN FRUITLAND COAL

2500'N 1545'E
 SAN JUAN NEW MEXICO
 Elevation 6291'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 2138
 Kirtland- 2164
 Fruitland- 2490
 Fruitland Coal Top- 2686
 Fruitland Coal Base- 2846
 Total Depth- 2847
 Pictured Cliffs- 2950

Logging Program: Mud logs from 2490 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2847	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-40
	7 7/8"	0 - 2847	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2847	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.

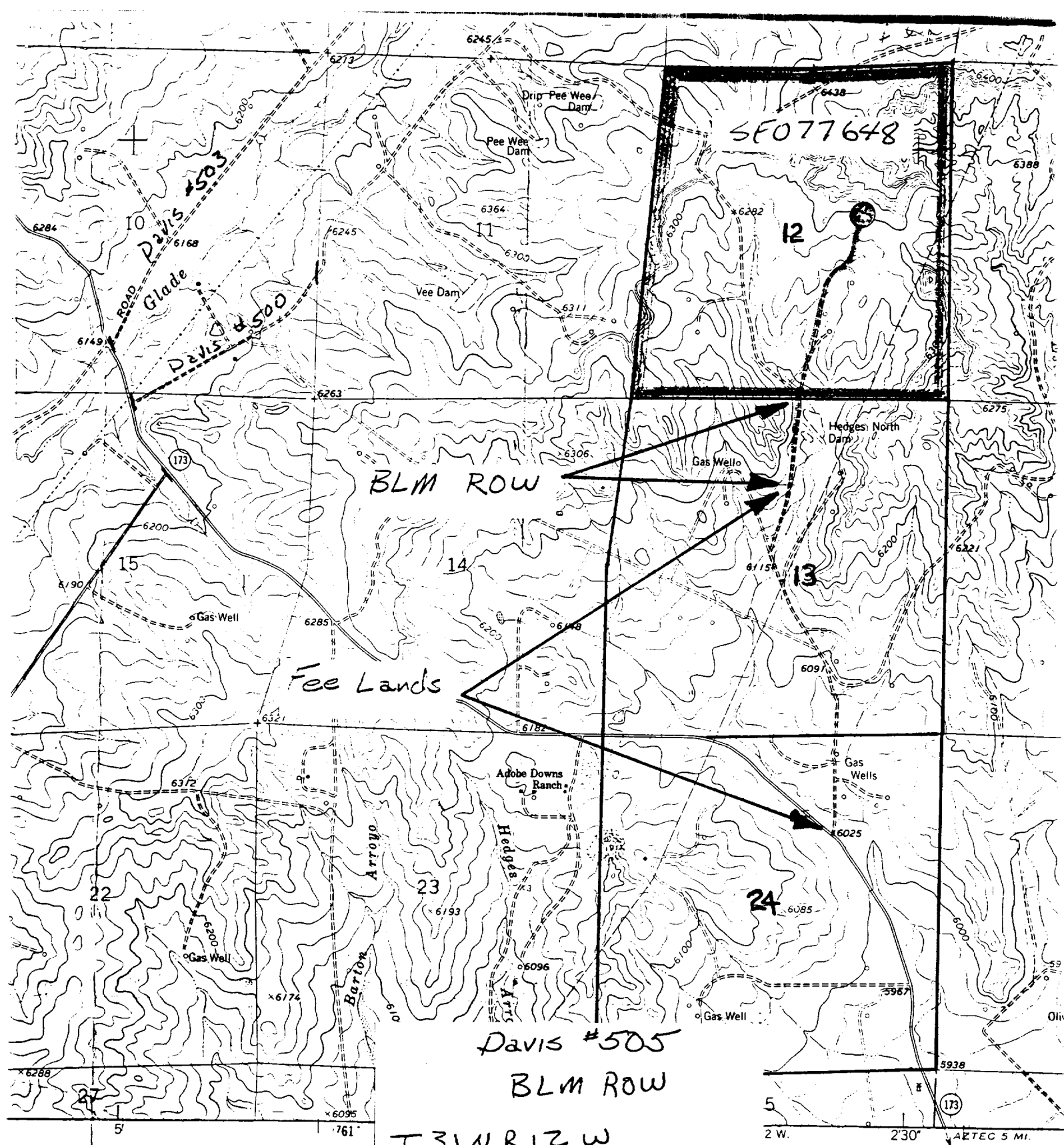
5 1/2" production casing - float shoe on bottom.
 Three centralizers run every other joint above shoe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly

Cementing:

8 5/8" surface casing - cement with 140 sacks of class "B" cement with 1/4# flocculent/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 66 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 246 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.



THIS MAP IS
FOR SALE BY U. S. GEOLOGICAL SURVEY
A FOLDER DESCRIBING

Map 2

REGISTRATION 22092
EST