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Form 3160-5
(June 1990)

MAY 14 11 10 AM '93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CARET
AREA

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Southland Royalty Company

3. Address and Telephone No.
P.O. Box 51810, Midland, TX 79710-1810

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/SW Sec. 29, T18S, R31E
1650' FSL & 990' FWL
2310/N 1680/E

5. Lease Designation and Serial No.
LC 029387C

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Shugart (Apr'o) "A" #5

9. API Well No.
30-215-20329

10. Field and Pool, or Exploratory Area
Shugart(Yates,7Rvs,QN,Gbg)

11. County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Notify the BLM prior to commencing plugging operations.
2. MIRU service unit and $\pm 3750'$, 2 7/8", 6.5#, J-55 tubing as a work string. ND wellhead, NU BOP. PU bit and scraper for 5 1/2", 15.5# casing on $\pm 3710'$ of 2 7/8" work string. Pump 14 bbl of 10 ppg gelled brine. POOH with tubing.
3. MIRU electric wireline unit. NU pack-off on BOP. RIH and cap CIBP at 3710' with 35' of cement. RIH and set CIBP for 5 1/2", 15.5# casing at 3490. Cap with 35' cement. RIH and set CIBP for 5 1/2", 15.5# casing at $\pm 3230'$. Cap with 35' of cement. RDMO wireline unit.
4. RIH with $\pm 3195'$ of 2 7/8" work string. Circulate hole with 10 ppg gelled brine POOH.
5. MIRU electric wireline unit. NU pack-off head on BOP. RIH and shoot four (4) squeeze holes at 835'. POOH. RDMO electric wireline unit.
6. PU cement retainer for 5 1/2", 15.5# casing on $\pm 770'$ of 2 7/8" work string. Set cement retainer at 770'. MIRU cement company. Establish pump-in rate. Circulate 160 sx of cement from squeeze holes (50' below surface casing shoe) to surface. Sting out of cement retainer. Cap retainer with 20 sx cement.

14. I hereby certify that the foregoing is true and correct.

Signed Joe G. Lara Title Production Assistant Date 5-12-93

(This space for Federal or State office use)
Approved by (ORIG. SGD) JOE G. LARA Title PETROLEUM ENGINEER Date JUN 7 1993

Conditions of approval, if any:

PU to \pm 330'. Spot 35 sx of cement from 330' to surface. P00H.

7. Cut off casing 3' below surface. Install P&A marker. RDMO service unit.

MERIDIAN OIL

FIELD: Shugart (Y, 7RV, QN, GB)

DATE SPUD: 04/30/93 COMP: 05/77/93

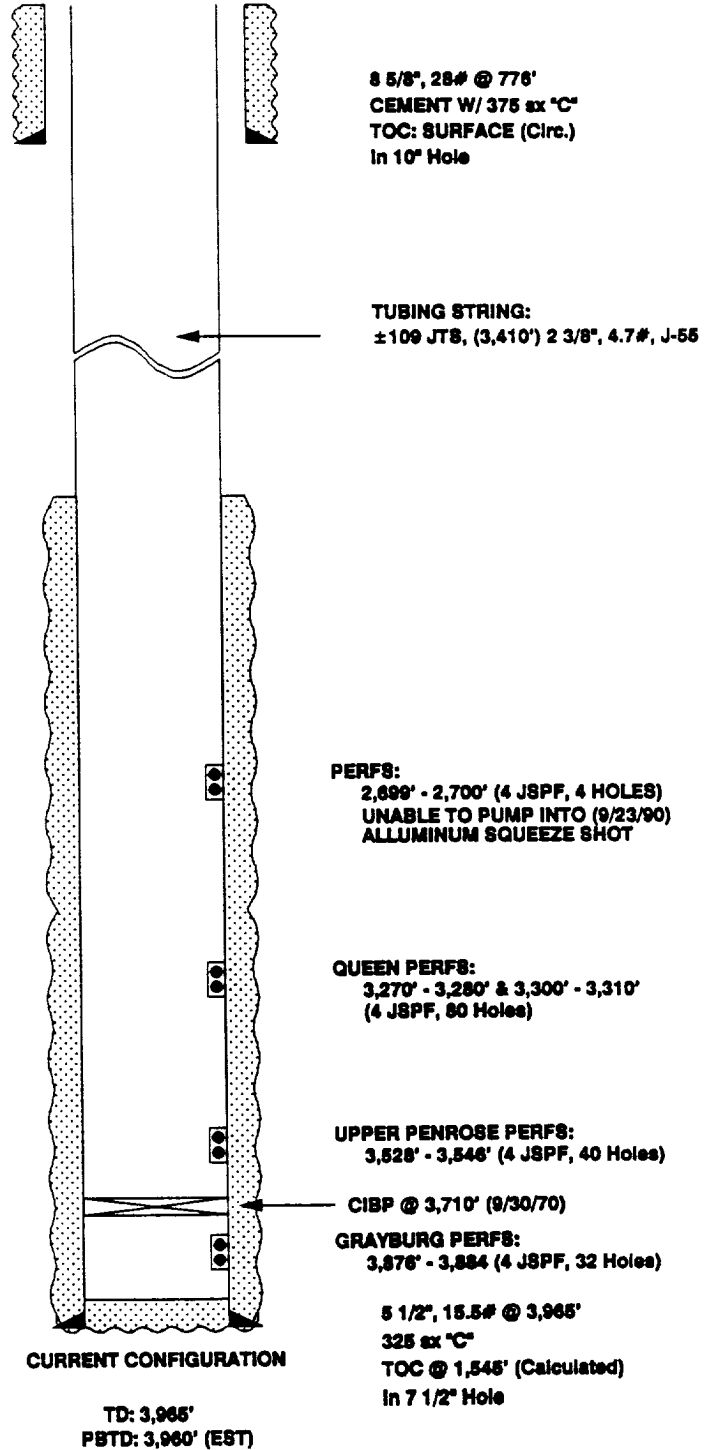
LEASE: SHUGART (APCO) A

WELL NO. 5

ELEVATION: 3,621' G.L. / 3,629' K.B.

LOCATION: 2,310' FNL & 1,680' FEL; SEC. 29, T-18-S, R-31-E

Eddy County, New Mexico



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FIELD: Shugart (Y, 7RV, QN, GB)

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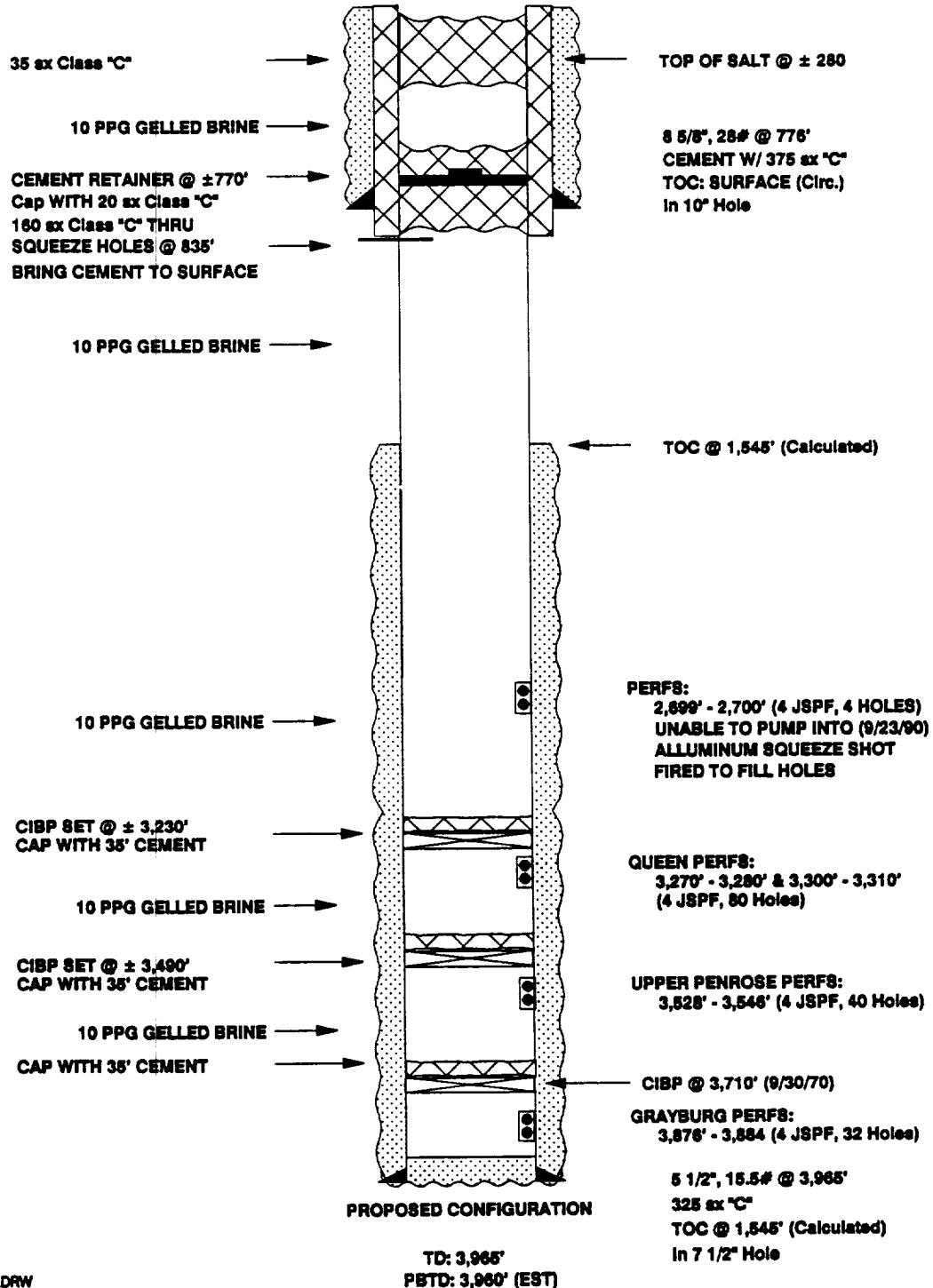
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Shugart (APCO) A No. 5
Shugart (Y, 7RV, Qn, Gbg) Field
Eddy County, New Mexico

MECHANICAL DATA

Type Tubular:	OD (in)	ID (in)	Weight (#/ft)	Grade	Conn	Depth (ft)	Collapse (psi)	Burst (psi)	Joint Strength (lbs)	Capacity (BPF)	TOC (ft)	Cement (sx)
Surface Casing	8 5/8	8.017	28.00	K-55 ?	BTC ?	0 - 776	1,880	3,390	437,000	0.06244	Circ. 10" Hole	175
Production Casing	5 1/2	4.950	15.50	K-55 ?	LTC ?	0 - 3,965	4,040	4,810	239,000	0.02380	1,545 Calc 7 1/2" Hole	325
Work String Tubing	2 7/8	2.441	6.50	J-55	EUE		7,680	7,260	99,660	0.00579	N/A	
Annulus 2 7/8" x 5 1/2"	--	--	--	--	--		--	--	--	0.01577	N/A	

MISCELLANEOUS INFORMATION

ELEVATION

KB (ft) :	3,629
GL (ft) :	3,621
TD (ft) :	3,965
PBTD (ft) :	3,960

FORMATIONS:	TOP	BOTTOM
Redbeds & Anhy	0	280
Salt	280	1,900
Anhy & Gypsun	1,900	2,100
Anhy W/ Shale & Sand Stringers	2,100	3,270
Sand (Queen)	3,270	3,314
Anhy W/ Sand Stringers	3,314	3,514
Sand (U Penrose)	3,514	3,550
Dolomite	3,550	3,794
Sand (Water)	3,794	3,806
Dolomite	3,806	3,870
Sand (Water)	3,870	3,880
Dolomite	3,880	3,900
Sand (Water)	3,900	3,920
Dolomite	3,920	3,965

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Permanent Abandonment of Wells on Federal Lands

Conditions of Approval

1. Approval: Plugging operations shall commence within 90 days from the approval date of plugging procedure.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Eddy County call (505)887-6544 ; for wells in Lea County call (505) 393-3612.

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet ; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C" , for up to 7,500 feet of depth, mixed at 14.8 lbs./gal. with 6.3 gallons of fresh water per sack or class "H" , for deeper than 7,500 feet plugs, mixed at 16.4 lbs./gal. with 4.3 gallons of fresh water per sack.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging

work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

Following the submittal and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.